NAVAL POSTGRADUATE SCHOOL Monterey, California



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THESIS

REENGINEERING THE UNITED STATES MARINE CORPS' RECRUIT DISTRIBUTION MODEL (RDM)

by

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September 1998

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The United States Marine Corps accomplishes its mission "to put the right Marine in the right place at the right time with the right skills and quality of life" in a variety of ways. One of the information systems assisting the Marine Enlisted Assignments branch is the Recruit Distribution Model (RDM). This thesis proposes changes to the RDM user interface, data management, assignment model, and analysis capability. With the use of business process reengineering, process modeling, mathematical modeling, and database design a fully functional prototype has been developed to address each identified change proposal. This reengineered system includes numerous innovations such as an intuitive navigational scheme using switchboards, and the elimination of manual data entry for data already available in the system. It also provides a number of significant contributions beneficial to the USMC. For instance, the reengineered system allows the user to objectively analyze different results by comparing four different objective measures, and its mathematical model uses commercial-off-the-shelf products eliminating a proprietary solver. All these changes will empower managers to effectively and efficiently manage the assignment of recruits in order to meet the challenges of the 21st century.

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REENGINEERING THE UNITED STATES MARINE CORPS' RECRUIT DISTRIBUTION MODEL (RDM)

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ABSTRACT

The United States Marine Corps accomplishes its mission "to put the right Marine in the right place at the right time with the right skills and quality of life" in a variety of ways. One of the information systems assisting the Marine Enlisted Assignments branch is the Recruit Distribution Model (RDM). This thesis proposes changes to the RDM user interface, data management, assignment model, and analysis capability. With the use of business process reengineering, process modeling, mathematical modeling, and database design a fully functional prototype has been developed to address each identified change proposal. This reengineered system includes numerous innovations such as an intuitive navigational scheme using switchboards, and the elimination of manual data entry for data already available in the system. It also provides a number of significant contributions beneficial to the USMC. For instance, the reengineered system allows the user to objectively analyze different results by comparing four different objective measures, and its mathematical model uses commercial-off-the-shelf products eliminating a proprietary solver. All these changes will empower managers to effectively and efficiently manage the assignment of recruits in order to meet the challenges of the 21st century.

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I. INTRODUCTION

A. THESIS PURPOSE

The main purpose of this thesis was to reengineer a United States Marine Corps' Manpower Assignment model concerned with the distribution of recruits to schools. This model is called the Recruit Distribution Model (RDM) [Ref. 1]. Throughout this thesis, the RDM is addressed as either RDM or the old system.

Additionally, an important purpose of this thesis was to build a functional prototype of the reengineered RDM. The new system is called the Recruit Distribution Decision Support System (RDdss). It demonstrates the functionality of the reengineered RDM. Throughout this thesis, the RDdss is addressed as either RDdss or the new system.

The majority of this thesis is devoted to a discussion of the RDdss. As necessary, the RDM is discussed. The following section is a general discussion designed to set the stage for understanding the rest of the thesis. It provides a problem description of recruit distribution in the United States Marine Corps (USMC). The last section of this chapter discusses the significant contributions of this thesis.

B. GENERAL PROBLEM DESCRIPTION

Recruit distribution in the USMC is the process that assigns recruits to an entry level school (ELS) leading to a military occupational specialty (See Figure 1). These assignments are made about 48 times a year, during the last week of Marine Corps Recruit Depot (MCRD) training. In this ending period of the MCRD, the recruits are facing the "Crucible," which is the final wicket a recruit endures before officially becoming a Marine. Consequently, the use of the titles recruit and Marine are used interchangably in this paper.

For at least two reasons, this assignment process is a critical manpower function. First, a Marine's military occupational specialty (MOS) ultimately determines

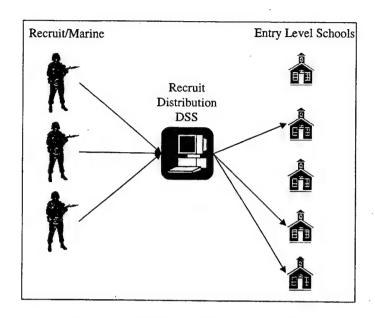


Figure 1. Assigning Marines to Schools

the member's career. Therefore, it is in the best interest of both the Marine and the USMC that a school assignment matching the Marine's desire is made. Second, the success obtained by a service member during his or her time in the USMC is partially based upon successful completion of their ELS, where a pattern of success is established. Therefore, a school assignment maximizing the chances of the Marine completing their training is important. So, fulfilling the Marine's desire and matching him or her to an MOS (i.e. ELS) that fits their personal characteristics is critical to the overall health of the USMC, making the assignment process a critical manpower function [Ref. 2].

Fulfilling the desire of the Marine is accomplished through the use of a contract guarantee. This is called a program enlisted for (PEF), and is specified during the recruiting process. For instance, a PEF = 19 is the "Tank and Assault Amphibian Option." There are currently two ELS's associated with this, "M1A1 Tank Crewman" and "Assault Amphibian Crewman." So, a Marine who chose the PEF = 19 is a possible candidate for these two schools and no others.

Once the Marine's school options are known, a Marine-to-school fit is deter-

mined for each of these schools (See Chapter III, Section B for details). This fitness determination is partly made by looking at each ELS's minimum eligibility requirements, which are call mandatory properties. This term "property" is used as defined by Webster's Ninth New Collegiate Dictionary: "a quality or trait belonging and especially peculiar to an individual or thing." Examples are Age > 18, Clerical >= 80, and Electrical >= 95. The meaning of the first example is obvious. The other two are based on test scores from the Armed Services Vocational Aptitude Battery (ASVAB) test.

In addition to the mandatory properties, most schools also specify desirable properties. A desired property is the same as a mandatory property, except they are not prerequisites for attending the school. For example, the Traffic Management Coordination school desires Marines with a Clerical score of at least 100. So, a desired property of Clerical >= 100 is specified for this ELS.

By using the information obtained from the PEF, mandatory and desired properties, a fitness matrix is generated. This shows the fit of every Marine to every school he or she is eligible for. Since there are about 100 schools and on average 700 Marines considered for every run, this matrix has the potential of 70,000 matches.

However, the matrix size is actually bigger. This is because each of the schools is broken down by classes. Some ELS's have a class starting each week, others every month, and others every quarter. Over a given year, these classes total about 1,800. Following the practice of the USMC, only the classes over the next 3-4 months are considered during the assignment process (see Figure 2). Therefore, the fitness matrix is increased to a potential size of 350,000.

The fact that the school classes start at different times throughout the year and that the assignment process is only conducted 48 times a year (normally this occurs on friday) causes the "3-month look ahead" in the model and has implications important to the USMC. The concern is school seats which never get filled. Each seat is prepaid, guaranteeing its availability to the USMC. This means every vacant

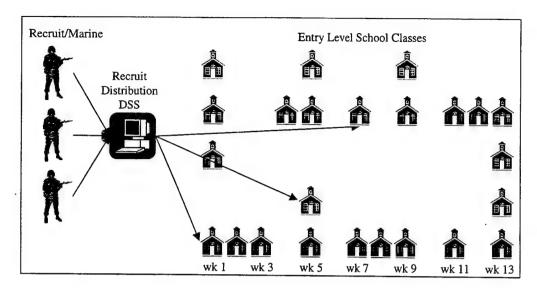


Figure 2. Assigning Marines to School Classes

spot is potentially a lost resource to the USMC. Therefore, in addition to the Marine-to-school fitness concern, there is also the concern of filling all available school seats before their report date is passed.

Another concern is the problem of unassigned Marines. There are numerous reasons why they may not get assigned. Maybe the only school class the Marine was eligible for is already full. Or, possibly he or she is not qualified for any of the school's promised by their PEF. A third possibility is errors in the data provided to the assignment process. Regardless of the cause, it requires identification and corrective action.

Finally, a discussion of the internal and external stakeholders associated with the USMC recruit distribution is given. Internally, there are the USMC and the recruits. Since their concerns were discussed above, they are not given any further consideration. Externally, there is the contractor Decision Support Associates, Inc. (DSAI) who has maintained and upgraded the RDM for over 30 years. They also maintain about eight other major systems for the USMC. For their services, the USMC pays a significant amount of money each year. Additionally, DSAI has proprietary software in some of these systems, which has locked-in the USMC to this

company. Besides the contractor, there is one last significant stakeholder, the American taxpayer. In a time of increasing fiscal constraints and shrinking budgets, it is imperative that wise decisions are made in regards to assigning Marines to ELS's. The American taxpayers expect nothing less.

C. SIGNIFICANT CONTRIBUTIONS

Four significant contributions beneficial to the USMC have been made in this thesis. A detailed discussion of these is given throughout the next three chapters. Here, we list and summarize the contibutions.

- Analysis and articulation of the recruit distribution process by interviewing USMC and DSAI personnel, reviewing available documentation, and operating the RDM we were able to articulate an understanding of the recruit distribution process using IDEF process modeling. Additional data modeling was articulated in a third normal form relational schema [Ref. 3].
- Development of a mathematical model by analyzing the assignment process, criteria, and constraints, USMC policies and objectives, a mathematical model for the new system was developed.
- Fully functional prototype an intuitive and easy to understand new system that seamlessly interfaces with the old system was built. It provides an objective means of comparing assignment results of both systems, and was developed using commercial-off-the-shelf (COTS) software applications.
- Elimination of the proprietary solver and associated contractor lock-in this
 was accomplished by replacing the proprietary solver with two COTS applications.

II. REENGINEERING MOTIVATIONS AND PROCESS VIEW

The RDM has a number of limitations which motivated the USMC to reengineer it. We start this chapter by listing and describing each identified limitation. Then, to develop a better understanding of recruit distribution in the USMC, two different process views are examined. The first is concerned with the RDM operating environment, and the second is concerned with the first level of the RDdss IDEF0 model.

A. LIMITATIONS OF OLD SYSTEM

Throughout this reengineering effort, a number of limitations of the old system have become apparent. Many of these limits were recognized earlier, and were part of the USMC's motivation to reengineer the RDM. The following is a list of the identified limitations of the old system.

- Navigation
- Data management
- Assignment procedure
- Transaction processing approach

A description of each limitation is now given.

1. Navigation

Navigating through the RDM is not intuitive. It is neither obvious where one should start or where one should go. Navigation is accomplished by initially selecting an option from one of the main display's drop down menus. This normally results in a window appearing on the computer's desktop. Then, by pointing and clicking on the displayed window's buttons, further navigation is accomplished. After working with the RDM for a number of hours, we were able to navigate through the application

to find and display specific windows. However, after a week or two of not using the system, we had difficulty finding our way around again. In the RDdss, we have created an intuitive navigational scheme using switchboards.

2. Data Management

Data management in the RDM is poor, leading to the introduction of numerous errors. The biggest problem in this regard deals with data entry. The RDM violates the basic rule of never requiring the user to enter data already in the system [Ref. 4]. For example, creating a new school in the RDM requires the user to type data into seven different data fields. Only the course identification number has been automated by a drop down list. In the RDdss, when creating a new school we have reduced the manual data entry to one field.

3. Assignment Procedure

There are at least five limitations associated with the old system's assignment procedure. It

- is encoded into proprietary software,
- $\bullet\,$ examines schools sequentially, rather than globally,
- makes assignments based on school priority rather than weights,
- attempts to maximize fill rather than fit-and-fill, and
- is relatively inflexible.

The solver performing these assignments was designed back in the 1950's, where the major concern was speed and using the minimal amount of memory. It is written in Fortran, and is proprietary code owned by DSAI. It does not search repetitively for an optimal solution by trying to maximize or minimize an objective function. Instead, it maximizes the fill of prioritized school seats. In the RDdss, we use a well know algorithm called CPlex [Ref. 5]. After conducting around 600 iterations of comparing 344 Marines to 576 school classes, it produces an *optimal* solution. Its

objective function was written to make the assignment procedure flexible. It allows the RDdss manager to "game" the system by making fit-and-fill trade-offs, until a "good" solution is found.

4. Transaction Processing Approach

Finally, the old system follows a transaction processing approach, vice a decision support approach [Ref. 6]. This is partially due to the inflexibility of the solver. However, another contributor is the extreme difficulty in comparing one run to another. Other than providing a means for manually computing the numerical difference in Marines assigned, the RDM provides little insight or information views for comparing runs. This is because there is no way to objectively compare one run to another. As it is now, if the RDM manager launches the assignment model and everybody is assigned, the result becomes the approved assignments. In the RDdss, we have created an entire process devoted to providing insightful analysis of a given run (See Chapter IV, Section D for details). Its purpose is to support the making of wise assignment decisions.

B. A PROCESS VIEW

To develop a better understanding of recruit distribution in the USMC, two different process views are now examined. The first is concerned with the current operating environment of the old system. The goal is to develop a big picture view of this process. For those interested in further study of the old system, Appendix A contains the RDM business process IDEF0 model.

The second process view examined concerns the first level of the RDdss business process IDEF0 model. The goal is to develop a better understanding of the new system, without going into great detail. This lays a good foundation for the RDdss discussions in the remainder of this thesis. Appendix B contains the entire IDEF0 model of the new system.

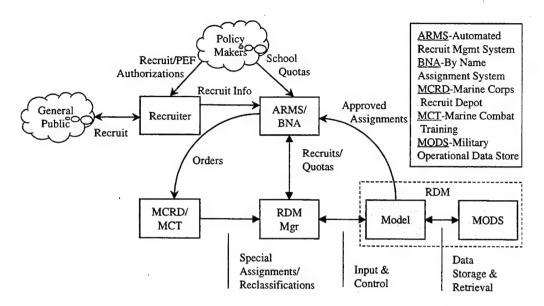


Figure 3. Current Recruit Distribution Operating Environment

1. Recruit Distribution Model Operating Environment

Figure 3 graphically depicts the operating environment of the USMC recruit distribution. At the top are the policy makers, who forecast and decide how many recruits and corresponding school seats are needed over the next few years. In addition to this, they determine how many PEF's or school guarantees to make available for a given year. Currently, about 65-70% of the recruits enter the USMC with a quarantee. The recruit and PEF authorizations for the following year are given to the USMC recruiters, and the school seats or quotas determined for the following years is input into the By Name Assignment (BNA) system.

The recruiters use the recruit and PEF authorizations in recruiting from the general public. Once a potential candidate is found they take the ASVAB, if they have not already done so. Based on the results, the recruiter can offer different quarantees. Once the candidate signs a contract with the USMC, their test scores, PEF, and other personal information such as age and height are entered into the Automated Recruit Management System (ARMS).

Both the ARMS and BNA systems utilize large main frame databases. They

serve as central repositories for maintaining data on many aspects dealing with the USMC. Keeping this information stored in one location ensures everyone is using the same data, providing consistency for all users. One user is the RDM manager, who retrieves recruit and school information from these systems for use in the RDM.

Additionally, the RDM receives data from two other sources. The MCRD instructors provide special assignment inputs. These are personnel identified as having the talents or abilities well suited for a particular school. The other data comes from the MCT. They provide the RDM manager with reclassification information. For instance, a Marine is reclassified if he or she is injured during MCT and is unable to make the start date of their assigned ELS.

All this recruit and school data is input into the RDM, where it is stored in the Military Operational Data Store (MODS). The model is then run. Once a satisfactory set of assignments is obtained, the RDM manager uploads the approved assignments to the ARMS and BNA systems. From this assignment information, the MCRD generates orders for the Marines graduating from the MCRD.

2. New System Level 0 Diagram

Focus is now shifted to the examination of the first process level of the RDdss. Looking any deeper will provide more detail than is necessary at this point. As mentioned earlier, the intent is to lay the foundation for the RDdss discussions in the remainder of this thesis.

Figure 4 shows the level 0, or context diagram of the RDdss. The program used to generate this illustration was BPWin, which is based on IDEF0 modeling. Consequently, all arrows entering from the left are considered "inputs," arrows entering from the top are "controls," arrows exiting to the right are "outputs," and arrows entering from the bottom are "mechanisms." A convenient acronym for this is ICOM [Ref. 7].

- I = Input: something consumed in the process
- C = Control: a constraint on the operation of the process

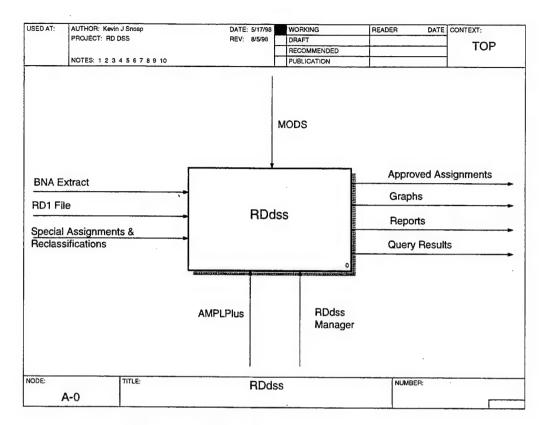


Figure 4. RDdss Process, Level 0 Diagram

- O = Output: something resulting from the process
- M = Mechanism: something used to perform the process, but is not itself consumed

There are three inputs to the RDdss, the BNA extract, the RD1 file, and the special assignments/reclassifications. The first of these contains a set of school class quotas covering a 120 day period. This comes to the RDdss manager as a fixed-width delimited text file. The RD1 file contains the data for the recruits soon to graduate from the MCRD. It also is a fixed-width delimited text file. The special assignments and reclassifications are the recruits identified with special abilities or talents and the Marines requiring reassignment to a different school class, respectively. This last data comes to the RDdss manager as a memo and not a text file.

The only control is the database (or Military Operational Data Store) used to store the data for the RDdss. Among other things, the MODS contains the informa-

tion specifying the eligibility requirements for each of the schools. This is why it is considered a control. It contains the data controlling or constraining the assignment of Marines to schools.

Besides the approved assignments that were mentioned earlier, the output consists of graphs, reports, and query results. Each graph was designed to provide insight into the current assignment result, plus provide a means for comparing different runs. The reports provide a print-out of information the RDdss manager might find useful. For instance, an approved assignment report and an unassigned Marine report are both available. The query results provide different views of the data in the MODS. For instance, one of the queries provides a listing of the fitness scores of all schools a Marine is eligible for.

Finally, the two mechanisms of the RDdss are the RDdss manager and the commercial-off-the-shelf (COTS) application AMPLPlus. Both of these entites are necessary to make the system work, and are not consumed by the process itself. This is why they are considered mechanisms. The RDdss manager is the one who points and clicks on the buttons of the RDdss, making it operate. AMPLPlus is the application containing the mathematical model used in making optimal Marine-to-school assignments. It interfaces with the CPlex algorithm that actually performs the optimization.

III. MODELING THE RECRUIT DISTRIBUTION PROBLEM

We model the recruit distribution problem as an assignment problem. Various submodels are developed to compute input paramters and perform other preprocessing steps for the assignment model, which optimally assigns recruits to a school class. Following is a discussion of important points concerning the recruit distribution problem.

- 1. Schools and Classes: there are about 130 schools per fiscal year, which are broken down by classes (about 1800 classes per fiscal year). Classes of the same school, commencing on different dates, are identical. However, a class commencing soon after a recruit is available for training has greater utility than another class starting at a later date. On average, there are 600 classes in a run.
- 2. Program Enlisted For (PEF)
 - (a) 65-70% of enlistees enter the USMC under a guarantee (or PEF). The remaining recruits enter under an open contract (PEF=00).
 - (b) A recruit can be assigned only to schools associated with his or her PEF. Some PEF's are associated with one school, while others are associated with many schools.

A. OPTIMIZATION OBJECTIVES: FIT AND FILL

Our approach in the assignment model is to optimize by looking at both fit and fill. The importance of both these objectives was discussed in Chapter II, Section B. The idea is to allow the RDdss manager to make a tradeoff between fit and fill.

The high-level objective function is:

Maximize

$$K_1 \cdot Fitness - K_2 \cdot Penalty$$

Where K_1 is the fitness coefficient and K_2 is the fill coefficient.

By assigning different values to these coefficients, the RDdss manager is able to make trade-offs between fit and fill. This capability makes the assignment model flexible. It provides the RDdss manager a means for "gaming" the system.

B. MEASURING FITNESS

The first half of the high-level objective function deals with maximizing the fitness of Marines to schools. Therefore, we cover this topic now. Following is a discussion of important points concerning the measuring of fitness.

- 1. Marines are only eligible for assignment to schools corresponding to their PEF guarantees.
- 2. Associated with each school are specific mandatory properties, or minimum eligibility requirments (e.g. AGE > 18).
- 3. Eligibilty of a Marine to a school is pre-determined by comparing a Marine's attributes (e.g. Age = 20) to the school's mandatory properties. A Marine is eligible only if he or she meets all the minimum school requirements.
- 4. Many schools also have desirable properties associated with them. This is a property which is desired in a Marine (e.g. Height > 65 inches), but are not prerequisties for attending the school. Since some desirable properties are more desirable than others, a means of distinquishing the properties is necessary. We have followed the Marine Corps practice of using 6 levels of desirability. Level 1 properties are the most desired, followed by level 2, etc.
- 5. Let $\mathcal{P}(s)$ denote the set of desirable properties for school s, and let level(p) denote the desirability level of property p. Let $possesses_{(m,p)} = 1$ if Marine m possesses property p (0 otherwise). Further, let $Score_{level(p)}$ (> 0) be the score assigned for possessing a level(p) property, where $Score_{level(p)}$ is calculated using an exponential function inversely proportional to level(p). The scores for levels 1 through 6 are shown in Figure 5.
- 6. The total fitness score $(fit_{m,s})$ of Marine m to school s is composed of two parts: the score $(ManScore_{m,s})$ for possessing mandatory properties, and the score $(DesScore_{m,s})$ for possessing some or all of the desirable properties.
 - Our procedure for computing fitness scores is designed in a manner that, for each school, the average fitness score—with the average computed over all qualified Marines, i.e. Marines who have met the mandatory properties—is constant (i.e. 100). The reason we did this was to ensure each school

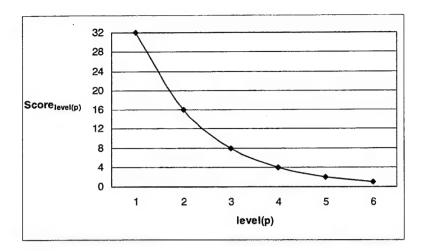


Figure 5. Exponential Function for Calculating $Score_{level(p)}$

received equal treatment in the model, regardless of the number of desirable properties specified for each school. Otherwise, all other things being equal, the school with the greatest number of desirable properties would receive the most assignments.

- 7. For each school s, percentage weights $ManWt_s$ and $DesWt_s$ are assigned, respectively, for the mandatory and desirable properties. For example, for school s_1 , a weight of 70% may be assigned to the mandatory properties and 30% for the desirable properties.
- 8. A Marine possessing all mandatory properties for school s is given an initial score $ManScore_{m,s} = ManWt_s \cdot 100$. Marines who do not possess all mandatory properties for a school are given an overall fitness score of 0 for that school.
- 9. Of all the Marines possessing the mandatory properties, those possessing desirable properties are awarded additional points, which are weighted by the level of the property. The Marine's score for desirable properties is computed as follows:
 - The absolute score $Abs_{m,s}$, for Marine m and school s, based on desirable properties is

$$Abs_{m,s} = \sum_{p \in \mathcal{P}(s)} Score_{level(p)} \cdot possesses(m, p)$$

The average of these absolute scores is computed over all qualified Marines. Let $AveAbs_s$ denote the average absolute score for school s.

• Each Marine's fitness score for desirable properties is then computed as a fraction of this average, and normalized by multiplying with the percentage weight for desirable properties. That is, $DesScore_{m,s}$ is a weighted relative score:

$$DesScore_{m,s} = \left(\frac{Abs_{m,s}}{AveAbs_s}\right) \cdot DesWt_s \cdot 100$$

The overall average of all these scores is, due to the above construction, $DesWt_s \cdot 100$.

- 10. The final fitness score, $fit_{m,s}$ is simply the sum $ManScore_{m,s} + DesScore_{m,s}$. It may be seen that, for each school, this number averages (over all the qualified Marines for that school) to 100.
- 11. As mentioned earlier, schools are broken down by classes that are identical, except for their start dates. Therefore, let $fit_{m,s} = fit_{m,c}$ for each class c of school s.

C. MEASURING FILL

The second half of the objective function deals with maximizing the fill of school seats. We now turn our attention to this topic.

As we discussed in Chapter II, school seats are paid for in advance. This is to guarantee the seat is available to the USMC. Consequently, every vacant spot is potentially a lost resource. Since the model is run about once every week, the biggest concern is the unfilled seats having report dates within the next seven days. Conversely, a seat having a report date in three months is not so critical.

To capture the essence of filling school seats with early report dates, we use a penalty function. The idea is simple. School seats having an early report date get a high penalty, and those having a late report date get a low penalty. A number of functions would have worked for this. We have graphed two candidates in Figure 6. The first is a linear function and the second a large-step function. Each of these was tried in the prototype. In our opinion the latter one is the best choice. It gives a lot of emphasis to the first week, plus it treats all schools having report dates within the same week equally. It is the function currently implemented in the rddss.

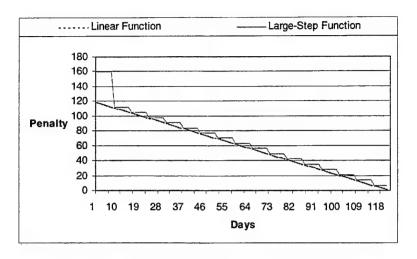


Figure 6. Two Candidate Penalty Functions

D. ASSIGNMENT MODEL

We are now ready to formally describe the assignment model. We will first specify the model's assumptions. Then, we will list the model's notation, followed by its objective function and constraints.

1. Assumptions

- 1. Each school is unique and identifies a single course of instruction leading to an MOS.
- 2. In any given run, a school may offer several classes that start on different dates. It is more desirable to fill seats in classes starting earlier. Such classes have a higher penalty per unit shortfall than similar classes starting at a later date.
- 3. All Marines available for assignment are graduating from the MCRD on the same date.
- 4. A Marine's eligibility for a school, as well as the fit for each school, is determined by the model preprocessor, taking into account the PEF guarantees, and the mandatory and desirable properties.
- 5. A Marine is assigned to a school corresponding to their PEF code, or not at all.
- 6. It is better to leave a Marine unassigned than to overfill a school.

7. The demand for the number of Marines to be trained in each school class is determined by looking at the BNA extract. This demand statement is already constrained by the capacity constraint at each school.

2. Notation

Sets

 \mathcal{M} : Marines

C: Classes

• Exogenous Variables (Parameters in AMPL)

 $fit_{m,c}$: the desirability of assigning Marine m to class c (note: the fitness score is zero for Marine-class pairs where either the Marine does not meet the classes mandatory properties, or where the class does not fulfill the Marine's PEF guarantee.)

 $demand_c$: demand for Marines to be trained at class c

penalty_c: penalty for each unit of demand not met (higher value means it is more critical to fill the class)

• Decision Variables

 $x_{m,c}$ (binary integer): 1, if Marine is assigned to the given class; 0 otherwise

3. Objective

Maximize the Total Utility: (Total Reward - Total Penalty)

$$TU = k_1 \left(\sum_{c \in \mathcal{C}} \sum_{m \in \mathcal{M}} fit_{m,c} \cdot x_{m,c} \right) - k_2 \left(\sum_{c \in \mathcal{C}} penalty_c \cdot (demand_c - \sum_{m \in \mathcal{M}} x_{m,c}) \right) \quad \text{(III.1)}$$

4. Constraints

• assignmentLimit: a Marine is assignable to at most one school

$$\sum_{c \in \mathcal{C}} x_{m,c} \le 1 \qquad \forall m \tag{III.2}$$

 eligibility: a Marine is only assignable to a class they are fit for (this prevents assigning Marines with a fitness score of zero)

$$x_{m,c} \le fit_{m,c} \quad \forall m \ \forall c$$
 (III.3)

• capacity: since penalties apply only if there is a positive shortfall, the objective function would be non-linear. To avoid that, we assume we will never oversupply Marines to schools, resulting in:

$$\sum_{m \in \mathcal{M}} x_{m,c} \le demand_c \qquad \forall c \tag{III.4}$$

IV. A DECISION SUPPORT SYSTEM FOR RECRUIT DISTRIBUTION

A. ARCHITECTURE AND IMPLEMENTATION

Following is a discussion of the RDdss architecture and its implementation. First, the architectural components are discussed. Then, the steps taken to build the RDdss are described.

1. Architecture

The architecture of the RDdss is depicted in Figure 7. This illustration shows how the six major components of the system are related. We will describe this architecture by examining each component in the following order: switchboard, relational database, preprocessor, assignment model, solver, and analyzer.

The switchboard is one of two components providing an interface between the user and the RDdss. It is the mechanism by which the user controls the operation of the system. Figure 8 illustrates the main switchboard of the RDdss. It is displayed

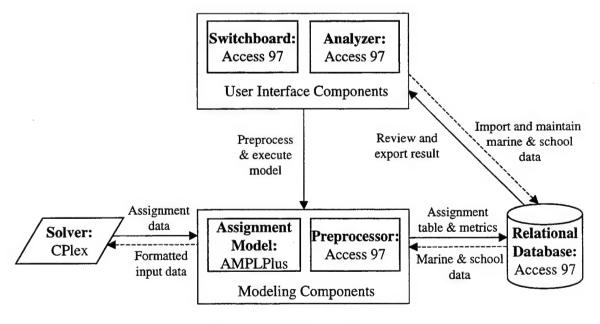


Figure 7. RDdss Architecture

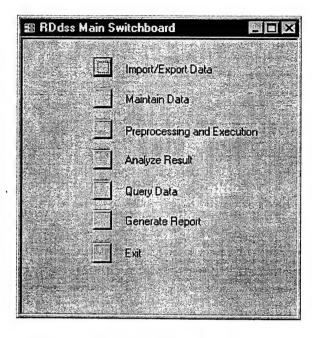


Figure 8: RDdss Main Switchboard

when the application is started. As this illustration depicts, the user can perform the following functions by simply pointing and clicking on the appropriate button: import and export data, maintain data, preprocessing and execution of the assignment model, analyze results, query data, and generate reports. All the RDdss switchboards were generated using Access 97.

The relational database technology was used in the RDdss [Ref. 8]. The actual table relationships are shown in Figure 9. These tables were developed in Access 97, which uses the relational technology. In addition to a few flat files used to communicate with the assignment model, all the data for the RDdss is stored in this database.

The preprocessor is one of the two modeling components. It consists of Access 97 Visual Basic for Applications (VBA) code that computes information necessary for the assignment model [Ref. 9]. It determines the demand of each class, the appropriate penalty associated with each class, and the Marine-to-class fitness matrix. The code for these assignment model inputs is found in Appendix D, lines 452-516 and 4305-4812.

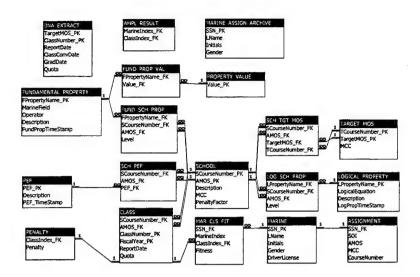


Figure 9. RDdss Relational Schema

The assignment model is the other component of the modeling components. It has been modeled in AMPL [Ref. 10], a language and a computing environment for expressing, solving, and analyzing mathematical programming problems (minimizing or maximizing a function of decision variables, subject to constraints on the variables). A complete discussion of the assignment model's math model is available in Chapter III, Section D.

The next component is the solver. It communicates directly with AMPL, the modeling language of AMPLPlus. As mentioned in Chapter II, it uses an algorithm called CPlex, which is an optimization package for linear, network and integer programming. Working in conjunction with AMPLPlus, the solver finds an optimal solution.

The final component is the analyzer. It is the other component making up the user interface. This is where the RDdss manager analyzes assignment results, seeking insights for developing a "good" solution. Insight is developed mostly by the graphs and numerical information available in the analyzer. These were generated in Access 97 using its report generator and VBA code. The programming used in the analyzer is shown in Appendix D and includes lines 1-310, 2156-2214, and 3756-3827.

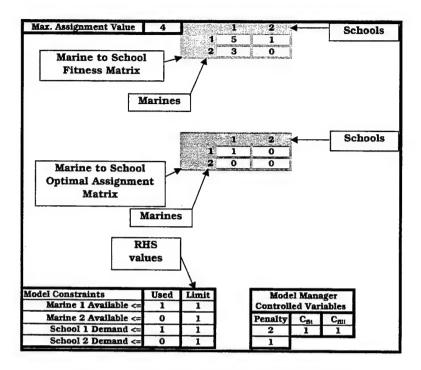


Figure 10. RDdss Demonstration Solver

2. Implementation

Building the RDdss was an iterative process. Some steps took numerous iterations, and some were straightforward. Below is a listing of the 14 major steps it took to build the RDdss.

- 1. Analyzing the current system was the first step. This included 1) interviewing USMC and DSAI personnel, 2) reviewing available documentation, and 3) operating the RDM.
- 2. After gathering the current system data, it was necessary to develop a logical understanding of the system. This was accomplished by modeling it with BPWin. Appendix B is the result of this step.
- 3. With this system understanding, it was possible to envision how the new system would make assignments. Using standard optimization techniques [Ref. 11], a small-scale demonstration solver was built using Excel 97. It is shown in Figure 10.
- 4. Combining the system understanding and the data requirements for the demonstration solver, it was possible to envision a data structure for the reengineered system. This lead to the development of a third normal form relational schema for the RDdss [Ref. 3].

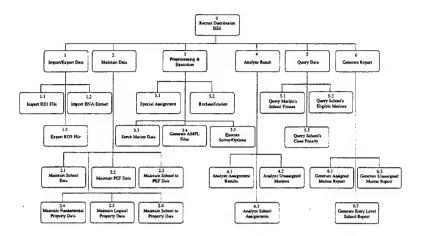


Figure 11. RDdss Decomposition Diagram

- 5. Using the relational schema as a model, the RDdss tables were built in Access 97. The results of this were seen earlier in Figure 9.
- 6. As the vision for the reengineered system came more into focus, an intuitive navigational scheme was conceived. This lead to the development of a decomposition diagram for the RDdss. It is demonstrated in Figure 11.
- 7. Using the decomposition diagram as a model, the user interface was built for the RDdss in Access 97. The Main Switchboard was seen earlier in Figure 8.
- 8. With the switchboards now in place, VBA coding was commenced [Ref. 9]. This made each switchboard functional and useful.
- 9. Building upon the concept of the demonstration solver from step 3, a formal mathematical assignment model for the RDdss was developed. This was introduced in Chapter III, Section D.
- 10. The COTS applications, AMPLPlus and CPlex were installed on the personal computer containing the RDdss.
- 11. With AMPLPlus now installed, it was possible to code the assignment model into the application. This made it possible to verify our design.
- 12. Manually creating input files for AMPLPlus is time consuming. So, the preprocessor was coded. This automated the generation of the class demand, class penalty, and Marine-to-class fitness matrix.
- 13. Further automation of the RDdss was accomplished by interfacing Access 97 and AMPLPlus. This required both VBA and AMPL coding. The end result was a seamless operation of the two applications.

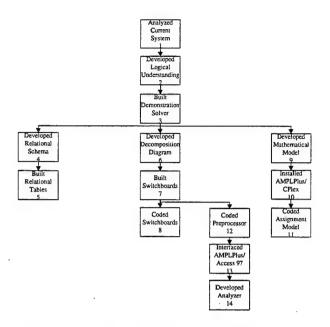


Figure 12. Actual RDdss Build Sequence

14. Finally, much thought was given to ways of gaining insight into the assignment results. This lead to the development of the analyzer, which was discussed briefly in the previous section.

Some of these steps were performed in parallel. The actual order followed in building the RDdss are depicted in Figure 12.

B. USING THE RECRUIT DISTRIBUTION DECISION SUPPORT SYSTEM

In this section, we will discuss using the RDdss. Three aspects are covered, 1) setting up a run, 2) model execution, and 3) customizing a run and results. Each is discussed in the order given here.

1. Setting up a Run

Setting up a run of the RDdss is straightforward and easy to do. Figure 13 graphically illustrates the steps involved. Starting with step 1 on the graph and working through to step 3d(iii), we will discuss a run set-up.

The RDdss manager starts at the top of the Main Switchboard. Here, he or

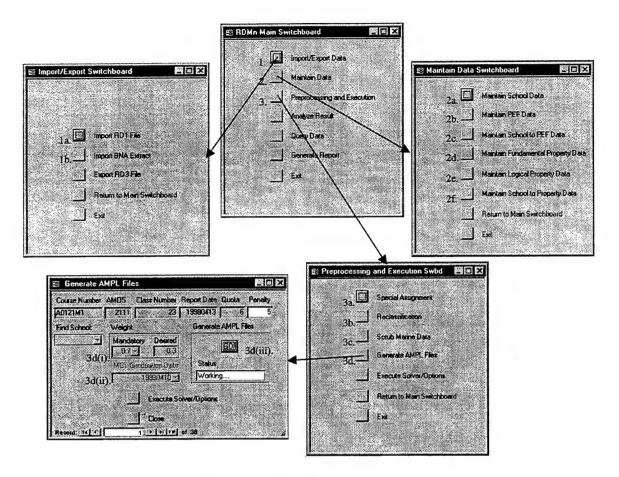


Figure 13. Setting up a Model Run

she clicks on the Import/Export Data button. This will cause the Main Switchboard to close and the Import/Export Switchboard to open. From this switchboard, the RDdss manager will import the RD1 file and the BNA extract into the RDdss MODS. This is easily accomplished by clicking on the corresponding buttons for importing these files. Finally, the RDdss manager will click on the "Return to Main Switchboard" button, causing the Import/Export Switchboard to close and the Main Switchboard to reopen.

The next step is data maintenance. This includes updating, editing, and/or deleting of school related information. The RDdss manager gets to the Maintain Data Switchboard by clicking on the appropriate button on the Main Switchboard.

From the Maintain Data Switchboard, the RDdss manager will start at the

top and work his or her way down to the bottom. The various buttons on this switchboard open forms where data maintenance is performed. For instance, the first button opens the Maintain School Data form, allowing the RDdss manager to create, edit, and/or delete a school. The other buttons allow similar operations with the PEFs, and fundamental and logical properties. After the RDdss manager has finished maintaining the data, he or she returns to the Main Switchboard by clicking on the "Return to Main Switchboard" button.

After data maintenance, the RDdss manager is ready to perform data preprocessing in prepartion for a model run. By clicking on the Preprocessing and Execution button, the Main Switchboard closes and the Preprocessing and Execution Switchboard opens. From here, as on all other switchboards, the RDdss manager starts at the top and works down.

The first three preprocessing buttons directly effect the generation of the class demand, class penalty, and Marine-to-class fitness matrix. This is why they come before the fourth button, Generate AMPL Files. Preprocessing in the correct order will reduce the amount of time spent setting up the run, by minimizing the need to generate a new class demand, class penalty, and Marine-to-class fitness matrix.

The first preprocessing button concerns special assignments. Specially assigning a recruit affects the AMPL input in two ways. First, the respective member is not included in the Marine-to-class fitness matrix, since they already have an assignment. Second, the class demand for the class the recruit is assigned to must decrease by one. Otherwise, it may become overfilled.

The second preprocessing button concerns reclassification of a Marine. Reclassified Marines affect the AMPL input in two ways. First, the class demand of the class they are no longer assigned to must increase by one. This provides an opportunity to fill the empty seat during a subsequent run. Second, the class demand of the class the Marine has been reassigned to must decrease by one. Otherwise, it may become overfilled.

The third preprocessing button concerns data scrubbing, which also affects the AMPL input. It is an attempt to identify and correct errors relating to the Marines. An example is a Marine who has been given an unknown PEF. Since it is not identified by the RDdss, the member will receive a zero fitness score for every class. This will prevent the Marine from getting an assignment.

Following the completion of special assignments, reclassifications and data scrubbing, the RDdss manager is ready to generate the AMPL input files. After going to the Generate AMPL Files form, the first concern is specifying the weights for the mandatory and desired properties. This is specified by the RDdss manager at step 3d(i). What this does is indicate how important the mandatory properties are with respect to the desired properties. For instance, if the RDdss manager decided to give a weight of 1.0 to the Mandatory selection, the Desired selection would automatically fill in with 0.0. This would indicate the desired properties are of no consequence. The default for these two selections is 0.7 for Mandatory, and 0.3 for Desired.

Next, at step 3d(ii), the RDdss manager selects the MCT graduation date desired. This is selected from the drop down list. Then, the RDdss manager pushes the "GO!" button. The system will now generate the AMPL input files, completing the run set-up.

2. Model Execution

Execution of the assignment model takes place after the run set-up has been completed. Figure 14 graphically illustrates the steps taken to execute the model. A discussion of this is now given.

From the Main Switchboard, the RDdss manager points and clicks on the Preprocessing and Execution button. This takes him or her to the corresponding switchboard. From here, the Execute Solver/Options selection is made. This opens up the form where the model is executed from.

The Execute Solver/Options form provides the RDdss manager the ability to set the fit and fill coefficients for the objective function. The default values are 1 for

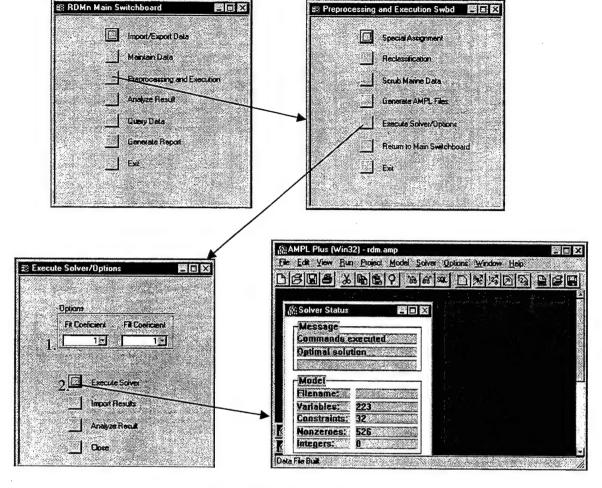


Figure 14. Model Execution

each coefficient. The RDdss manager can change either of these with a whole number from 0 - 100. The significance of these numbers is discussed in detail later in this chapter. Once the desired coefficients have been chosen, the Execute Solver button is pushed.

By selecting the Execute Solver button, AMPLPlus is launched. This application will run without user interaction. First, it will import the RDdss mathematical assignment model. Next, the specified fit and fill coefficients are retrieved. Finally, the preprocessed data generated during the run set-up are imported. Using this input data, AMPLPlus works in conjunction with the solver and generates an optimal assignment solution.

With the generation of an optimal assignment solution, the results are sent to an output file called "rdm.out." AMPLPlus, having completed its task, now closes. This indicates an optimal solution was found and is available for importing. So, the RDdss manager now imports the results by pushing the Import Results button on the Execute Solver/Option form.

3. Customizing a Run and Results

As mentioned in the previous subsection, the RDdss manager can set the fit and fill coefficients of the objective function. This is a key capability of the new system. It is the means by which the RDdss manager can customize a run and "game" the RDdss. This "gaming" of the new system is essential for determining a "good" assignment result.

For instance, if the fit coefficient is set to 0, and the fill coefficient is set to a number > 0, say 1, the assignment model will maximize the fill of schools having early report dates. This has both advantages and disadvantages. One advantage is the average wait time for Marines to attend a school is minimized. Another is that the number of unfilled school seats, having a report date between the current and next scheduled model run, is minimized. However, a disadvantage is the average Marine-to-school fitness score is guaranteed to be the lowest score of all runs.

Conversely, if the fit coefficient is set to a number > 0, say 1, and the fill coefficient is set to 0, the assignment model will maximize the average Marine-to-school fitness. An advantage here is the increased chance of each Marine successfully completing their ELS, establishing a pattern of success early in their career. However, one disadvantage is the wait time for a Marine to attend a school is guaranteed to be the longest. Also, the number of unfilled school seats, having a report date between the current and next scheduled model run, is guaranteed to be the greatest.

Neither of the above solutions is ideal. A better solution is some where between these two extremes. By changing the fit and fill coefficients of the objective function, the RDdss manager has a means for customizing each run to ensure a "good"

C. INNOVATIONS IN USER INTERACTION

A number of user interaction innovations have been made in the RDdss. Two of them have already been discussed. These were the intuitive navigational scheme using the switchboards, and the elimination of manually entering data already available in the system. One more note worthy innovation is now introduced. It is a date change innovation.

The date change innovation concerns changing the graduation date of the Marines in the downloaded RD1 file. This is necessary for generating correct assignment results. The date in the downloaded RD1 file is based on graduation from the MCRD. However, the model needs to know when the Marines are available for assignment. Availability is based on the MCT graduation date.

The old system solution to this problem took three steps. First, the RDM manager used a calendar to determine the MCT graduation date. This is normally 27 days following completion of MCRD, and is always on a friday. So, the RDM manager will find the MCRD graduation date on the calendar and count 27 days. The friday nearest to this day is the day desired. Second, this MCT graduation date, along with the RD1 file, is sent to another branch in the USMC where the date change is made. Third, the file is returned to the RDM manager, who imports the file into the RDM.

The reengineered system has streamlined this process. Within the RDdss, the RDdss manager makes the date change. It is accomplished with the push of a couple buttons.

Figure 15 shows how these changes are made. First, the RDdss manager selects the MCRD graduation date requiring a change. Once this is selected, a calendar appears. Its purpose is to help the RDdss manager correctly identify the MCT graduation date. Next, the "=" button is pushed. Its purpose is to add the number of

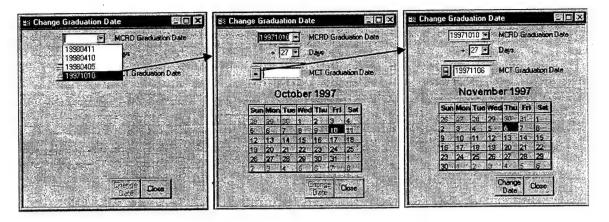


Figure 15. Changing a Graduation Date

days specified in the "Days" field (default is 27), to the MCRD graduation date. This updates the calender as shown on the far right. When the correct date is found, the "Change Date" button is pushed. This makes the desired change to the data in the RDdss database.

D. INNOVATIONS IN ANALYZING MODEL RESULTS

As discussed earlier, the RDdss manager has the capability of "gaming" the system by using different fit and fill coefficients. However, having this ability is not enough. The RDdss manager still needs a means to compare one run against another.

It is hard, if not impossible, to estimate the quality of a solution simply by looking at a list of assignments. The actual assignment results depend on the values of the fit and fill coefficients, which cannot be set at the ideal levels without understanding the impact on solution quality. So, analyzing run results to get insight and develop a "good" solution is now discussed.

Four measures are considered particularly useful in evaluating alternative solutions.

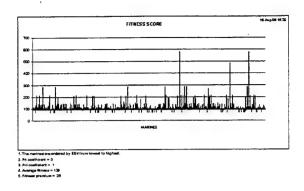
 Fitness premium. The Marine-to-school fitness function is defined in a way that for each school, the average fitness over all Marines eligible for that school is 100. So, for any school, if the average fitness computed over Marines assigned

- to that school is greater than (or less than) 100, the difference represents a positive (or negative) premium.
- 2. Unfilled seats in first week. Since the model is run nearly every week, seats left unfilled in classes starting in the first week will remain unfilled. This represents wasted resources.
- 3. Average wait time for Marines. Experience has shown that the longer a Marine waits before attending their ELS, the greater the chance of disciplinary problems. Therefore, it is generally better to keep this wait period short.
- 4. Unassigned Marines. A purpose of the system is to assign each Marine to a school. Therefore, knowing the number of unassigned Marines is an important measure.

To provide the RDdss manager insight into the assignment results, these measures have been incorporated into output representations, including summary statistics and detailed graphs. Each output provides both numerical and visual information. The numbers are used for quantitative comparisons. The graphical information provides a big picture view for use in a qualitative comparison.

As an example, consider the two fitness graphs in Figure 16. Both of these were produced using an RD1 file of 344 Marines and an BNA extract with school data covering a 120 day period. Below each graph is amplifying and numerical information. The bar chart on the left has a fit coefficient of 0 and a fill coefficient of 1. Additionally, its fitness premium is $28 \ (=128-100)$. The bar chart on the right has a coefficient of 1 for both fit and fill. Its fitness premium is $38 \ (=138-100)$. The fit numbers are quantitatively comparable. The fitness premium for the run on the right is $36\% \ (=100\% \ x \ [38-28]/28)$ better than the run on the left.

The above numerical analysis is also supported by visually comparing the bar charts. Notice the large number of blips falling below the fitness score of 100 on the left graph. Each blip represents a Marine, and there are actually 44 of them. Conversely, notice the comparatively small number of blips below 100 on the right graph. There are 21 of them. The visual comparison of the two graphs reveals the



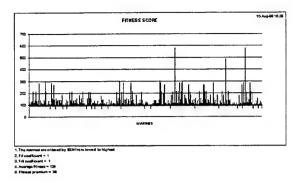
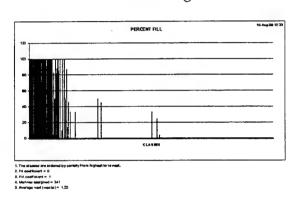


Figure 16. Two alternative results: Fit



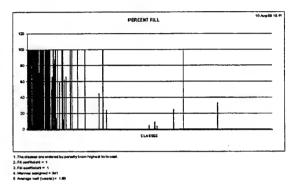


Figure 17. Two alternative results: Fill

qualitative difference. The graph on the right indicates a higher quality Marine-to-school fit. Of course, this supports the numerical comparison performed earlier.

As another example, consider the two fill graphs in Figure 17. These are based on the two model runs just described. In other words, the left graph has a fit coefficient of 0 and a fill coefficient of 1, and the right graph has a coefficient of 1 for both fit and fill.

Visually, these two graphs display an obvious difference. To appreciate how they are different requires an understanding of the significance of the blips. As note 1 of each graph indicates, "The classes are ordered by penalty from highest to lowest." Recall from Chapter III, this means the ordering is by class report date, starting with the earliest date. In other words, the bar chart on the left indicates almost every Marine will start school within the first three weeks. As discussed earlier, this is desirable. The bar chart on the right has its blips more spread out. So, by visually

comparing the two graphs, the left one has a higher quality with respect to minimizing wait time.

This is easily validated by the numbers given in note 5 of each graph. The average wait of a Marine from the left bar chart is 1.33 weeks, and the average wait from the other bar chart is 1.69 weeks. Now we quantitatively compare these values. The results from the left graph are 27% (=100% x [1.69-1.33]/1.33) better than the right.

In the following table, the results from three runs are given. The measures on the left are the four measures described earlier. Each run used the same 344 Marines and 120 days worth of school classes. The information for the first and third runs is from the two model runs discussed above. The second run was determined by "gaming" the system. In other words, we tried numerous combinations of the fit and fill coefficients until a "good" solution was found. Run 2 was the result. Understand though, we are not saying "best" solution. Only the USMC can determine what is best for them.

	Run 1	Run 2	Run 3
	(fit=0; fill=1)	(fit=1; fill=11)	(fit=1; fill=1)
Unfilled Seats (1st week)	23	23	23
Unassigned Marines	3	3	3
Average Wait (weeks)	1.33	1.33	1.69
Fitness Premium	28	31	38

The reason we feel Run 2 is a "good" solution is based on a quantitative comparison of the measures and one additional piece of information. It is the fact the USMC feels it is more important to minimize wait time than to maximize the Marine-to-school fit. The remainder of this section explains how we decided Run 2 was a "good" solution.

Starting with the values for unfilled seats, it is obvious all three runs are equal. The same is true for the unassigned Marines measure. So, these two measures provide no insight for comparison purposes.

Concerning the average wait, the values of Runs 1 and 2 are equal. Further, their 1.33 value is numerically smaller than the 1.69 value of Run 3. This is good for Runs 1 and 2. As was proven earlier, a value of 1.33 is 27% better than 1.69.

Finally, there is the fitness premium measure. The first observation made is that Run 1 is a candidate for elimination. The reason is as follows. Run 2 has the same score as Run 1 for the first three measures in the table, but it shows an 11% (=100%x[31-28]/28) increase in the fitness premium. So, Run 1 is eliminated from the competition.

This leaves the last two runs. Run 3 shows a 23% (=100%x[38-31]/31) increase in fitness premium over Run 2. This creates a conflict. Run 3 has a 27% increase in average wait time, which is bad. Conversly, it has a 23% increase in fitness premium, which is good. To decide which solution is better, more information is necessary. This comes from the fact mentioned earlier, that the USMC feels it is more important to minimize wait time than to maximize the Marine-to-school fit.

We can now conclude Run 2 is a better solution than Run 3. Here is why. Run 2 minimizes average wait by 27% by giving up a 23% increase in Marine-to-school fit. This agrees with the USMC desire to more strongly emphasize a minimum waiting time. So, Run 2 is a better solution than Run 3. Since it also satisfies the known desires of the USMC, we feel it is a "good" solution as well.

E. OBJECTIVE COMPARISON OF OLD AND NEW SYSTEM SOLUTIONS

In the previous section, we described how a set of solutions generated by the RDdss are compared to determine a "good" solution. Using the same approach, we now demonstrate how to objectively compare the results from the old system with the new system. This provides the USMC a means of determining which system's solution is better, if either. Comparison of the new and old system results has been made easy by automating the importing of the RDM result into the RDdss.

We have summarized the important data for the old and new systems in the following table, based on the same 344 Marines and 120 days of school classes discussed earlier. Since the assignment algorithm for the RDM was designed to maximize fill, a run from the RDdss based strictly on fill has also been included. It is the run with a fit coefficient of 0, and a fill coefficient of 1. The last column, labeled "Run 2," is a "good" solution we found by gaming the RDdss.

	Run 1	RDM	Run 2
	(fit=0; fill=1)		(fit=1; fill=10)
Unfilled Seats (1st week)	23	23	23
Unassigned Marines	3	3	3
Average Wait (weeks)	1.33	1.34	1.34
Fitness Premium	28	29	32

We start by objectively comparing the RDdss fill-based result with the RDM result. They are labeled "Run 1" and "RDM," respectively. As we shall prove, the RDdss has done a better job at filling early school seats than the RDM.

Of the four measures, only one provides any useful insight for this comparison. It is the average wait measure. The reason the other three do not apply is as follows. The first two measures have the same values, so they provide no insight. The last measure is not too meaningful, since Run 1 is strictly based on maximizing fill. In other words, it disregards fit because its fit coefficient is set to 0. This leaves the average wait measure.

A quantitative comparison of the average wait shows the RDdss solution is 1% (100%x[1.34-1.33]/1.33) better than the RDM solution. This is explainable by considering the approach used in each model. The RDM assignment algorithm maximizes the fill of early school seats by looking at each school in a sequential fashion. In contrast, the RDdss conducts a global comparison of Marines and schools. In other words, it goes through numerous iterations until it finds an optimal fill solution. This show that the RDM assignment algorithm is only closely approximating the optimized assignment result.

Finally, we "gamed" the new system until a "good" solution was found. This is Run 2. It has a fit coefficient of 1 and a fill coefficient of 10.

The objective comparison of the RDM and Run 2 solutions is straigtforward. Since the first three measures are the same for both results, they provide no insights. This leaves only the fitness premium measure. A quantitative comparison of this measure shows Run 2 has a 10% (100%x[32-29]/29) better solution than RDM. This shows the benefit of "gaming" the RDdss.

F. SUMMARY

This relatively long chapter covered some important points related specifically to the RDdss. The architectural components of the new system were discussed first, followed by the steps taken to actually build this DSS. Then, from an operational point of view, using the RDdss was discussed. This included setting up a run, executing the model, and customizing a run for determining a "good" solution. Next, two innovations were discussed in great detail. These included the date change innovation and the analyzing model results innovation. Finally, a means of objectively comparing the solution from the old and new systems was discussed.

We truly believe the innovations and capabilites introduced by this prototype can greatly benefit the USMC's Marine Enlisted Assignments branch. It can help the USMC to more effectively accomplish its mission as stated by the Commandant of the Marine Corp, "to put the right Marine in the right place at the right time with the right skills and quality of life."

V. CONCLUSION

This concluding chapter has three short sections, followed by a final comment. In the first section, we reiterate the significant contributions made in the thesis. This is followed by a brief description of some lessons we learned. Then, some recommended improvements for the prototype are given. Following this last section, we comment on how this thesis work might benefit the other branches of the United States military.

A. SIGNIFICANT CONTRIBUTIONS

Four significant contributions beneficial to the USMC were made in this thesis. These were discussed in detail in the previous three chapters. A list and summary of the contributions is given here.

- Analysis and articulation of the recruit distribution process by interviewing USMC and DSAI personnel, reviewing available documentation, and operating the RDM we were able to articulate an understanding of the recruit distribution process using IDEF process modeling. Additional data modeling was articulated in a third normal form relational schema.
- Development of a mathematical model by analyzing the assignment process, criteria, and constraints, USMC policies and objectives, a mathematical model for the new system was developed.
- Fully functional prototype an intuitive and easy to understand new system that seamlessly interfaces with the old system was built. It provides an objective means of comparing assignment results of both systems, and was developed using COTS software applications.
- Elimination of the proprietary solver and associated contractor lock-in this
 was accomplished by replacing the proprietary solver with two COTS applications.

B. LESSONS LEARNED

Our original goal was to build an As-Is IDEF0 model of the RDM, about two months after starting the thesis. This worked out fine. The next goal was to take

another six weeks to develop a To-Be IDEFO model [Ref. 1]. This did not work out, for two reasons. First, our understanding of the entire recruit distribution process was still not mature enough to build the To-Be model. Nearly half a year was spent just thinking about its many details. Second, it is nearly impossible to envision the new system without first knowing the capabilities and limitations of the application used to build the prototype. One extreme envisions the impossible, while the other barely touches the reengineered system's potential. The lesson learned from this was that properly reengineering a process requires two things. A detailed understanding of the current process environment, and a good working knowledge of the capabilities and limitations of the application used to build the prototype.

Getting feedback from the Marine Enlisted Assignments branch was not always easy. Correspondence normally occured by e-mail. There was an inverse relationship between the number of questions asked and the number of answers given. As the one increased, the other decreased. So, another lesson learned was that it is best to limit each correspondance to a question or two.

While writing code, it is best to simultaneously document the code's purpose. Going back and trying to provide documentation at the end is too frustrating. This requires a considerable amount of discipline, but is well worth the effort. The lesson learned here is document as you code.

C. PROTOTYPE IMPROVEMENTS

A big part of this thesis involved the building and refinement of the prototype. The following topics are areas where the RDdss could use improvements.

1. Speed Improvements

a. Preprocessing Data

Of all the steps necessary to complete a run of the RDdss, the preprocessing step is the most time consuming. For the 344 Marines and approximately 500 school classes analyzed in this thesis, it takes about 30 minutes to preprocess this data. This is about ten times longer than the assignment model takes to find an optimal solution. As the size of the preprocessing data is doubled, so is the time needed to preprocess it. Finding a way to speed up this process is desirable. One possibility is to find a way to perform all the preprocessing in main memory, with only two accesses to the hard drive. The first access is to get the necessary Marine and school data. The second is to write the preprocessed results back to the hard drive.

b. Analyzing Result

Compared to all other forms and switchboards in the RDdss, opening the "analyze results" forms is the most time intensive. With the 344 Marines and approximately 500 school classes, it takes just under a minute for any of these three to open. This feels like an eternity when you are in a hurry. The reason it takes so long is the creation of temporary tables, numerous calculations and comparisons, and retrieving of data from flat files. Finding a way to reduce this time is desirable. One possibility is to create another form which would contain only the four objective measures. Currently, the RDdss manager must go to two different forms for this information. Each containing information and displays in addition to the objective measures, which slow them down.

2. Multiple Solution Storage

Currently, the prototype will only save the results of one solution. This means the RDdss manager must either print-out hard copies of the graphs, or manually write down each solution's objective measures for comparison with other runs. An improvement here should allow the storage of at least three solutions. This would permit the RDdss manager to easily compare each solution. He or she could then eliminate one or two undesirable solutions, while continuing to search for a "good" one.

3. Administration Switchboard

To look at all the schools or properties in one display, the RDdss manager must open up the associated school or property table. A reason for doing this is system administration. For instance, if a supervisor is auditing the RDdss's property data, looking at all the data at one time is convenient. A simple way of including this feature is by adding another switchboard. The switchboard's buttons would have VBA code associated with them, causing the desired tables to open.

Any benefits derived from this thesis work were specifically aimed at the USMC. However, it does not have to end there. Like the USMC, other branches of the United States military must deal with the problem of how best to assign their service members to schools. Since all the services require their enlisted personnel to take the ASVAB test, the approach used in our prototype might prove an ideal solution. Further, our efforts may also contribute to the reengineering of other assignment models. So, this thesis work could actually benefit all branches of the United States military.

APPENDIX A. ACRONYMS

Acronym=>Meaning

AMPL A Modeling Language for Mathematical Programming

ARMS Automated Recruit Management System
ASVAB Armed Services Vocational Aptitude Battery

BNA By Name Assignment System
BPWin Business Process for Windows
COTS Commercial-off-the-shelf

CPlex Optimization Package for Complex Linear, Network and Integer Programming

DSAI Decision Support Associates, Inc.

DSS Decision Support System
ELS Entry Level School

ICOM Input, Control, Output, Mechanism

IDEFDefense Institute ModelingIDEF0Business Process ModelingMCRDMarine Corps Recruit DepotMCTMarine Combat Training

MODS Military Operational Data Store MOS Military Occupational Specialty

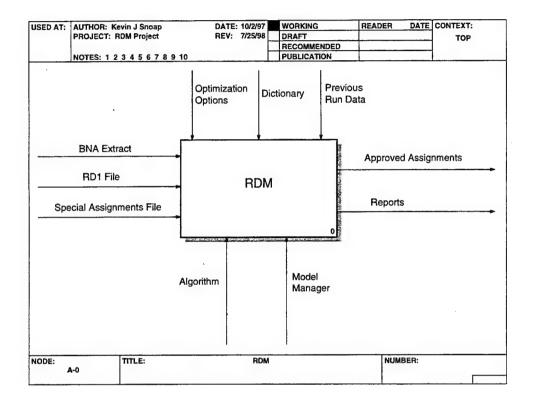
PEF Program Enlisted For

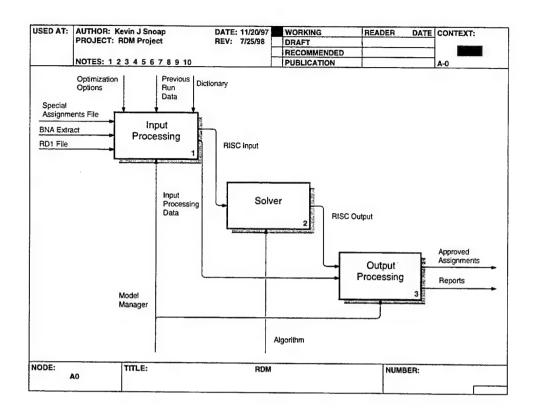
RD1 Recruit Distribution Input File RD3 Recruit Distribution Output File

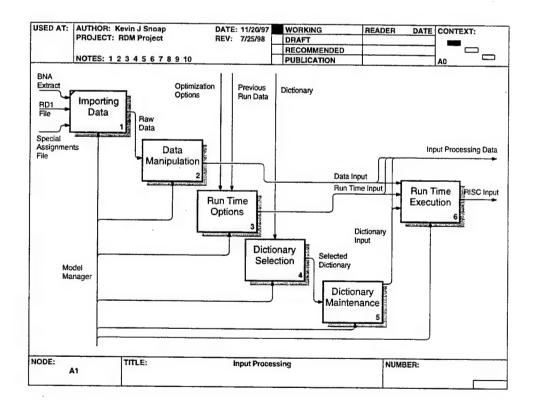
RDdss Recruit Distribution Decision Support System

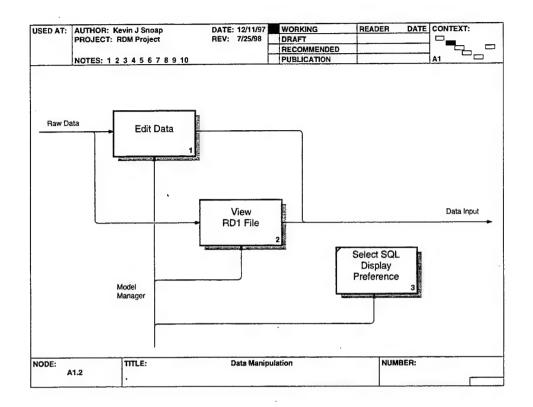
RDM Recruit Distribution Model
USMC United States Marine Corps
VBA Visual Basic for Applications

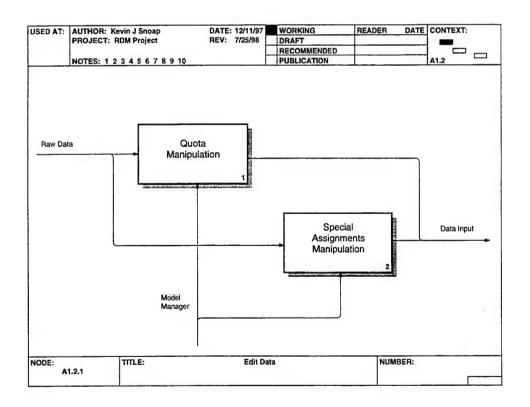
APPENDIX B. AS-IS RD BUSINESS PROCESS (IDEF0) MODEL

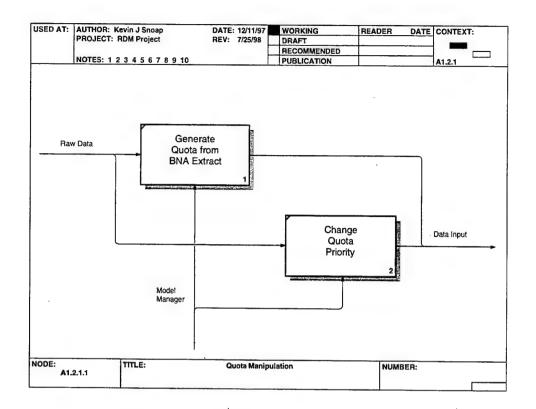


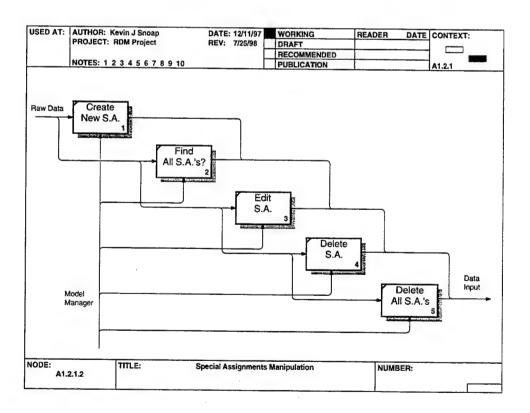


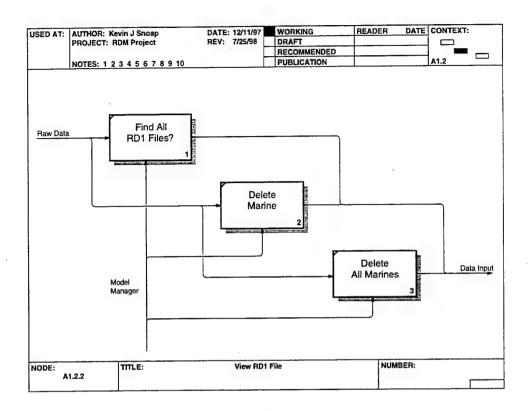


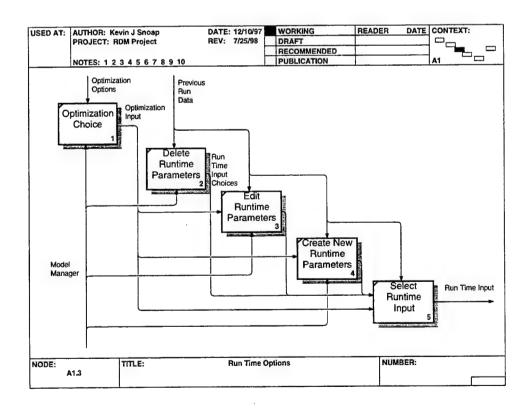


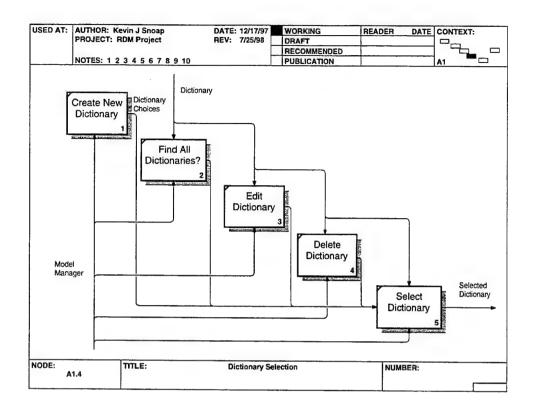


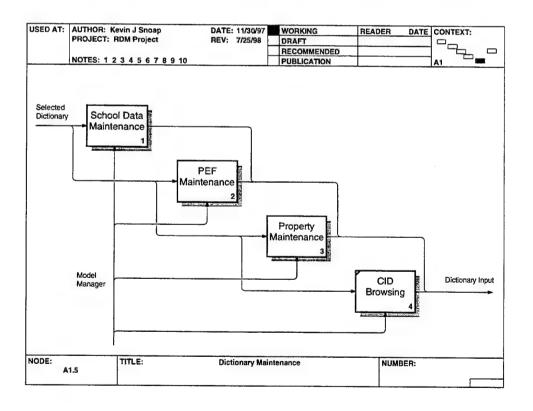


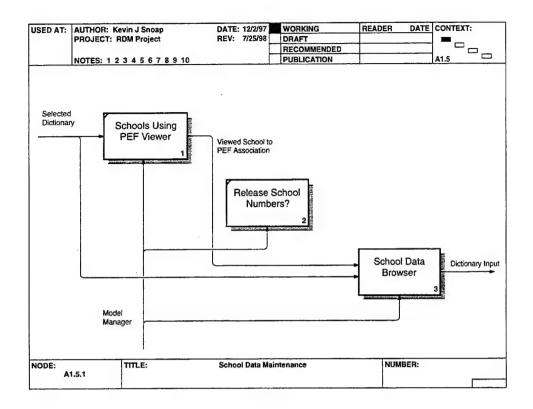


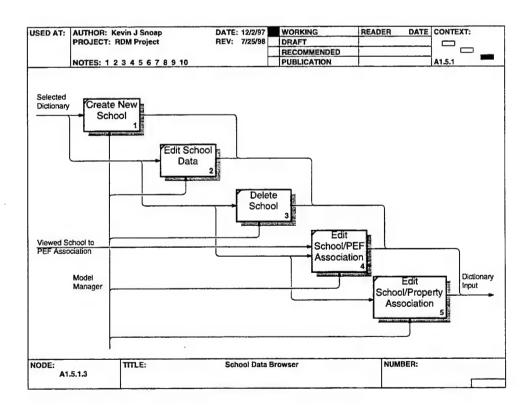


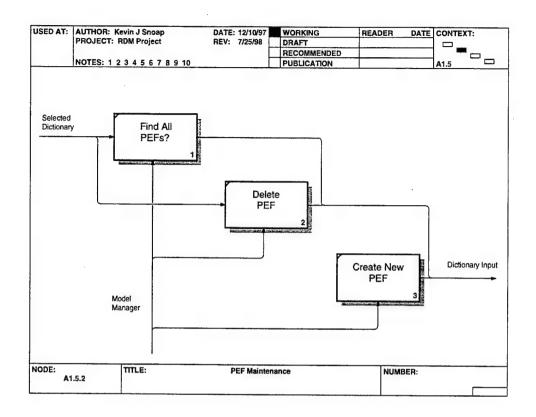


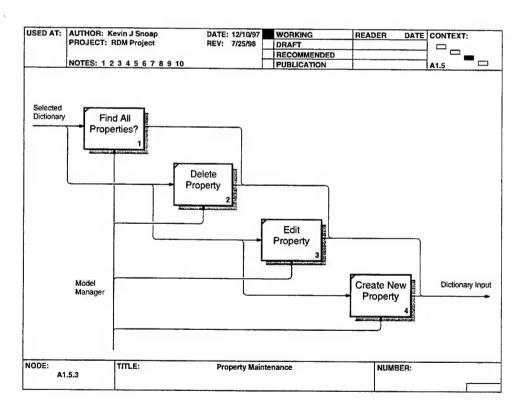


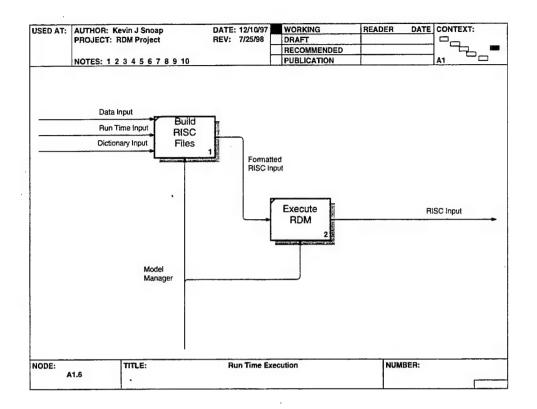


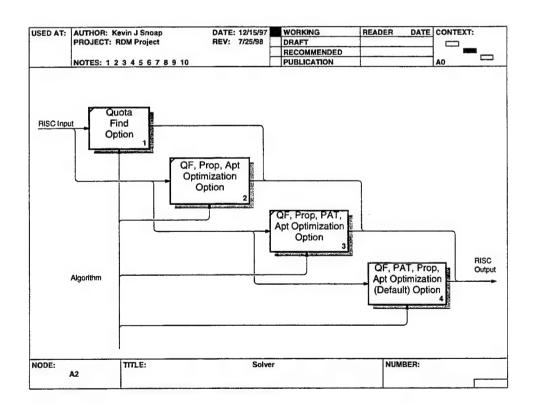


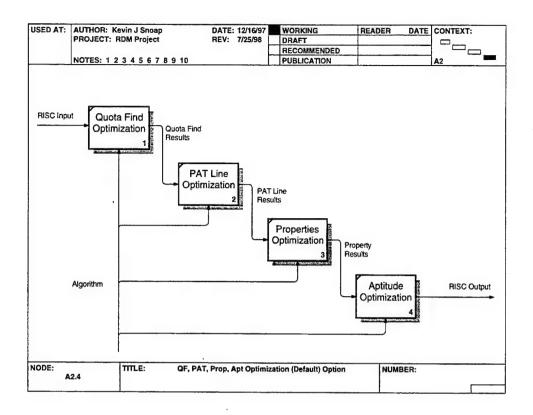


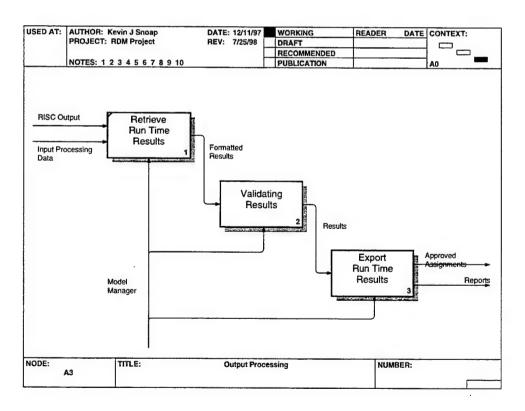


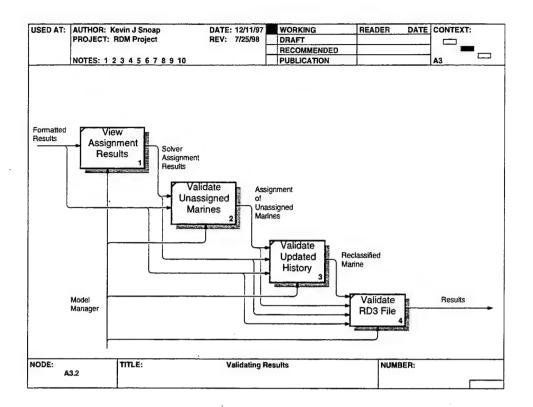


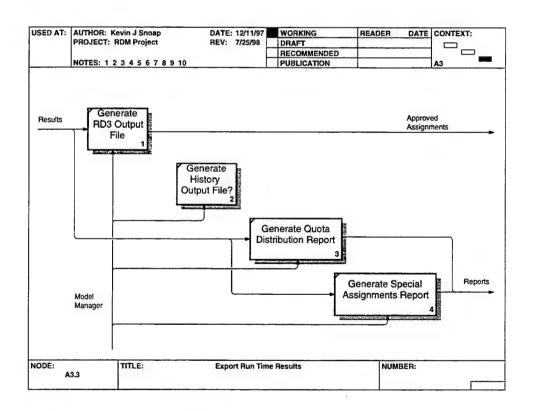




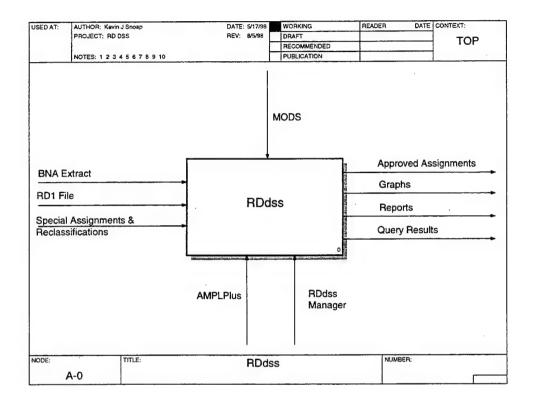


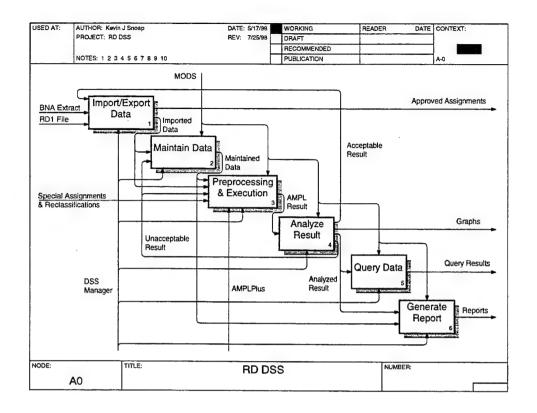


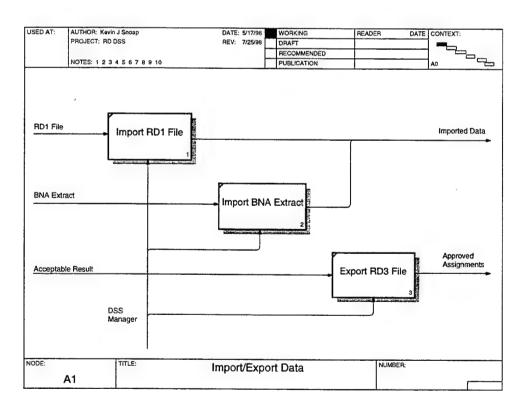


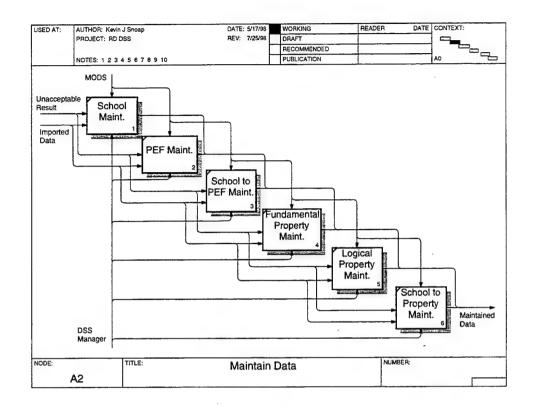


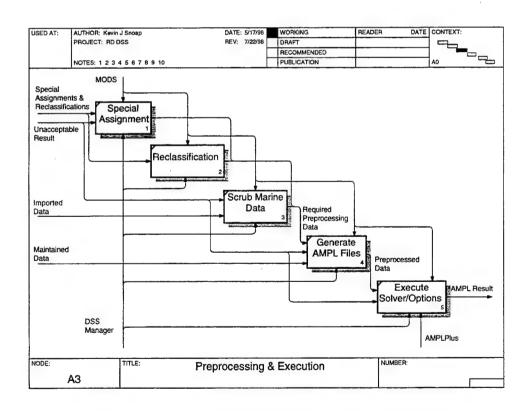
APPENDIX C. TO-BE RD BUSINESS PROCESS (IDEF0) MODEL

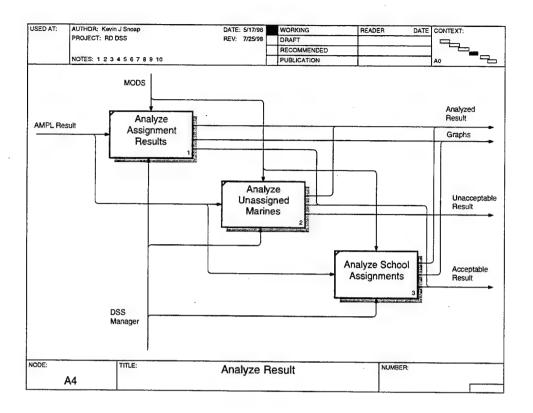


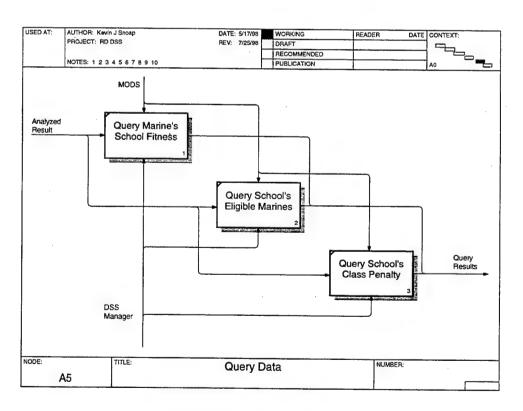


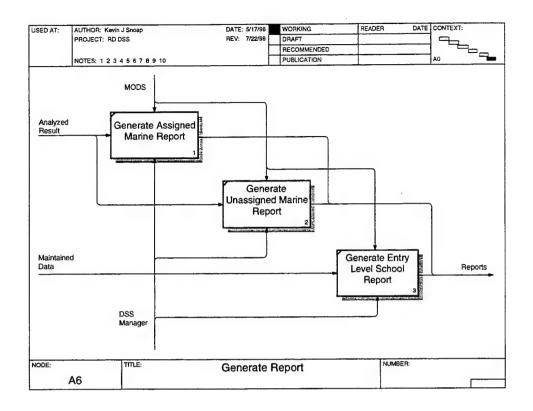












APPENDIX D. RDDSS VBA CODE

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Dim strSQL As String
Dim i As Integer, j As Integer
Dim roc As Recordest, rec1 As Recordest, rec2 As Recordest
Dim do1 As Database
                                                                                                                                                                                                                                                                                                                                                                                          db1.Execute "CREATE TABLE PERCENTAGE (Course/Number TEXT, AMOS 
10th INTEGER, Assigned INTEGER, Percentage INTEGER);"
Application.SetOption "Confirm Action Queries", True
                                                                                                                                                                                                                                                                                                                                                                                          strSQL = "SELECT" FROM PERCENTAGE;"
Set rec = db1.OpenRecordset(strSQL, dbOpenDyt
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                                                                                                               * Remove the created table db1.Execute *DROP TABLE CONSTANTS;* db1.Close
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*Open specified form
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                                                                                    Private Sub binChangeDate_Click()
                                                                                             'Change the specified graduation date in the MARINE table
Application SelCption "Confirm Action Queries", False
DoCmd.OpenCuery "gryChangeGradData"
Application.SelCption "Confirm Action Queries", True
                                                                                                   "Update the drop down list for MCRD Grad Date
MetembMCRDGradDate, RowSource = "SELECT DISTINCTROW
MCTGradDate]. [GradDate] FROM [qryMCTGradDate]."

10 'Lipdate the drop down list for Micro Molecum Charles Deudouro (pryMCTGradDate) [CardDate] PROM (pry MCTGradDate) [CardDate] FROM (pry MCTGradDate] [CardDate] FROM (pry MCTGradDate] [CardDate] Falso (Molecum Charles Card and Card and
                                                                                                   *Force user to refresh data before performing another date change Metronbloays. Enabled = False MetabloCtGatChet Enabled = False MetbhtCtGats. Enabled = False
                                                                                                "Provide a message indicating the change was made
MegBox "Date change was successful."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    * Prevents the user from going back to change the MCTGradDate until a 
iss file is
                                                                                                   If IsNuf(varDate) = False And IsNuf(intDays) = False Thon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    'Update the quote/penalty records on this form as SQL = "SELECT DISTINCTROW [CLASS] [CourseNamber_FN]. * & _ "CLASS] [ReportDate]. * (CLASS] [Allows, FN]. * (CLASS] [ReportDate]. * (CLASS] [Cooker, FN]. * (CLASS) [COOker, 
                                                                                                                        *Format this date for use in the DateAdd function varDate = Format(varDate, *###########")
                                                                                                'Add 120 days to this date
varDate = DateAdd("d", in!Days, varDate)
                                                                                                                  *Convert the new date back into the original format varDate = Format(varDate, *yyyymmdd*)
                                                                                                                        ' Place the new date in the 'upper date bound' test box on the
                                                      51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75
                                                                                          *Allows user to change the graduation date in the MARINE table
MelbinChangeDate.Enabled = True
End III
                                                                                       End Sub
                                                                                    Private Sub cmbMCRDGradDate_AfterUpdate()
                                                                                                   Dim varDate As Variant
                                                                                                   varDate = Me.cmbMCRDGradDate
MelbdMCTGradDate.Value = " *
                                                                                                   If IsNul(varDate) = False Then
                                                                                                                        ' Change calendar to this date
MelctCalendar. Value = varDate
MelctCalendar. Visible = True
MelctrbDays. Enabled = True
MelbtMCTGradDate. Enabled = True
```

521	66 Mei Status = "Working"	651 652	21 Resume Exit_binFind_Click 22 End Sub
522 523	67 68 End Sub	653	23
524 525	69 70 Private Sub btnPrepareAndExecuteSoher_Click()	654 655	24
526 527	71 On Error GoTo Err_binPrepareAndExecuteSolver_Click 72	656 Fo 657	rm: trmFundamentaProperty Code
528	73 Dim stDocName As String	658	Attribute VB_Name = "Form_frmFundamentalProperty"
529 530	74 Dim stLinkCriteria As String 75	659 660	2 Attribute VB_Creatable = True 3 Attribute VB_PredeclaredId = True
531 532	76 * Close the current form 77 DoCmd.Close	661 662	4 Attribute VB_Exposed = False 5 Option Compare Database
533	78 * Open specified form	663	6 Option Explicit
534 535	79 sDocName = "trmPrepareAndEsecuteSolver" 80 DoCmd.OpenForm sDocName, , , stLinkCriteria	664 665	8 Private Sub Commend15_Click()
536 537	81 82 Ext_binPrepareAndExecuteSolver_Clicic	666 667	9 10 MagBox "This is a button", vblnformation, "Testing"
538	83 Exit Sub	668 669	11 12 End Sub
539 540	84 85 Err_btnPrepareAndExecuteSolver_Clicic	670	13
541 542	86 MegBox Err. Description 87 Resume Exit_bin PropereAndExecuteSolver_Click	671 672	14 Private Sub binClose_Click() 15 On Error GoTo Err_binClose_Click
543	88	673 674	16 17
544 545	90	675	18 DoCmd. Glose
546 547	91 Private Sub-binReturnPrevious_Click() 92 On Error GoTo Err_binReturnPrevious_Click	676 677	19 DoCred. OpenForm "frmMeintenanceSwitchboard" 20
548 549	93 94 Dim stDocNeme As String	678 679	21 Exit_binGlose_Click: 22 Exit_Sub
550	95 Dim stLinkCriteria As String	680	23
551 552	96 97 'Close the current form	681 682	24 Err_binClose_Click: 25 MegBox Err.Description
553 554	98 DoCard Close 99 * Open specified form	683 684	26 Resume Ext_binClose_Click 27
555	100 stDocName = "ImmPreproceesing&ExecutionSwitchboard"	685	28 End Sub
556 557	101 DoCmd.OpenForm siDocName, , , sä.inkCriteria 102	686 687	29 30
558 559	103 Exit_binReturnPrevious_Click: 104 Exit Sub	688 689	31 Private Sub cmbFPropertyNameFind_AfterUpdate() 32
560	105	690	33 Dim R As Recordset
561 562	106 Err_binReaumPrevious_Click: 107 MegBox Err_Description	691 692	34 Set R = Me.RecordsetClone 35 R.FindFirst "[FPropertyName_PK] = " & Chr(34) &
563	108 Resume Exit_binReturnPrevious_Click	693 694	Mel(cmbFPropertyNameFind) & Chr(34) 36 Me.Bookmark = R.Bookmark
564 565	109 110 End Sub	695	37 Mei[cmbFPropertyNemeFind] = Null
566 567	111 112 Private Sub cmbCourseNumberFind_AfterUpdate()	696 697	38 Me.FPropertyName_PK.SelFocus 39
568	113	698	40 End Sub 41
569 570	115 Set R = Me.RecordsetClone	699 700	42 Private Sub Command11_Click()
571 572	116 R. FindFirst "(SCourseNumber_FK) = " & Chr(34) & Mei[cmbCourseNumberFind] & Chr(34)	701 702	43 *Forces user to enter data for property name and description 44 If Ishkil(Me.PropertyName_PICValue) Or Ishkil(Me.Description.Value)
573	117 Me.Bookmark = R.Bookmark	703	45 MelMarineField.Enabled = False
574 575	118 Met[cmbCourseNumberFind] = Null 119 Me. Penalty. SelFocus	704 705	46 MelOperator, Enabled = False 47 MelLabel10.Visible = False
576	120 121 End Sub	706 707	48 MelsubirmFundamentalProperty.Vraible = Falso 49 MelsubirmFundamentalPropertyList.Vraible = Falso
577 578	122	708	50 Me/cmbPotentialValue, Visible - False
579 580	123 Private Sub Form_Current() 124	709 710	51 MegBox "You must provide a "Property Name" and "Description" before building the fundamental equation."
581	125 Prevents the user from creating the AMPL files until a MCT	711	52
582 583	126 graduation date is entered 127 If Ishbal(Me.MCTGradDate.Value) Then	712 713	53 'Allows the user to enter values for the fundamental equation 54 Else
584	128 Mel binGo. Enabled = False	714	55 MelMarineField.Enabled = True
585 586	129 Mel/Status. Enabled = False 130	715 716	57 MelLabel10.Visible - True
567 588	131 'Allows the user to create the quota and penalty files 132 Eise	717 718	58 If FormelfrmFundamentalProperty, Operator, Value = "in" Then MetsubfrmFundamentalProperty, Visible = False
589	133 MelbinGo.Enabled = True	719	60 MeisubfrmFundamentaPropertyList.Visible = True
590 591	134 135 End II	720 721	61 62 Ebse
592 593	136 'update the status of the status text box 137 MelStatus = ""	722 723	63 MelcmbPotentia/Value.Visible = True 64 Melsub/mFundementa/Property.Visible = True
594	138	724	65 MeisubhmFundamentaPropertyList.Visible = False
595 596	139 End Sub 140	725 726	66 End II 67 End II
597 598	141 Private Sub MCTGradDate_AfterUpdate() 142	727 728	68 69 End Sub
509	143 Dim var Date As Variant	729	70
601	144 145 verDate = Me,MCTGradDate	730 731	71 Private Sub Description_AfterUpdate() 72
602 603	146 147 If Ishkili(varDate) = False Then	732 733	73 Dimst/SQL As String 74
604	148	734	75 Forces user to enter data for property name and description
605 606	149 MelbinGo, Enabled = True 150 Mel Status, Enabled = True	735 736	75 'Forces user to enter data for property name and description 76 If IshAlfMe.PropertyName_PK.Value) Or IshAlfMe.Description.Value) 77 MelMarineField.Enabled = False
607 608	151 152 Format this date for use in the DateAdd function	737 738	78 MulOperator.Enabled = False 79 MelLabel10.Visible = False
609	153 varDate = Format(varDate, "########")	739	80 MelsubfrmFundamentalProperty.Visible = False
610	154 155 * Add 120 days to this date	740 741	81 MelsubhmFundamentalPropertyList.Visible = False 82
612 613	156 varDate = DatsAdd("d", 120, varDate) 157	742 743	83 *Allows the user to enter values for the fundamental equation 84 Ease
614	158 Convert the new date back into the original format	744	85 MetMerineField.Enabled = True
615 616	159 varDate = Format(varDate, "yyyymmxid") 160	745 746	86 MelOperator.Enabled = True 87 MelLabel10,Visible = True
617 618	161 Place the new date in the "upper date bound" text box on the calling form.	747 748	88 If FormstirmFundamentalProperty,Operator,Value = "in" Then 89 strSQL = "SELECT DISTINCT" & Mel Marine Field & " FROM
619	162 Me. UDateBound = verDate	749	90
620 621	163 164 Else	750 751	Forms/ImmFundamentalProperty/sub/rmFundamentalPropertyListValue_FK.RowSo urce = strSGL
622 623	165 MelbinGo.Enabled = False 166 MelStatus Enabled = False	752 753	91 MelsubfmFundamentaProperty.Visible = False 92 MelsubfmFundamentaPropertyList.Visible = True
624	167 End 11	754	93
625 626	168 169 End Sub	755 756	94 Ene 95 strSQL = "SELECT DISTINCT" & Mel/MarineField & " FROM
627	170	757 758	96 Forme!trmFundamentaiPropertyl:subtrmFundamentaiPropertyl:cmbValue_FK.FlowSou
629 Fe	orn; ImFind	759	rce = sirSQL
630 631	Code 1 Attribute VB_Name = "Form_trmFind"	760 761	97 MelsubitmFundamentaProperty.Visible = True 98 MelsubitmFundamentaPropertyListVisible = False
632	2 Attribute VB_Creatable = True	762	99 End It
633 634	3 Attribute VB_PredeclaredId = True 4 Attribute VB_Exposed = False	763 764	100 End If 101
635	5 Option Compare Database	765 766	102 End Sub 103
637	7	767	104 Private Sub Form_BeforeUpdate(Cancel As Integer)
638 639	8 Private Sub binFind_Cick() 9 On Error GoTo Err_binFind_Cick	768 769	105 106 [FundPropTimeStarrp] = Now
640	10	770	107
641 642	11 'Screen.PreviousControl SeFocus 12 FormattrmSchoolToPropertyMaint.SetFocus	771 772	108 End Sub 109
643	 DoCmd.FindRecord Me.cmbCourseNumber, , True, , True, acAll 	773 774	110 Private Sub Form_Current() 111
644 645	14 "DoCmd.DoMenultem acFormBar, acEdiMenu, 10, , acMenuVer70 15	775	112 Dim strSQL As String
646	16 Exit_btnFind_Click: 17 Exit_Sub	776 777	113 114 'strSQL = "SELECT MarineField, Operator FROM FUNDAMENTAL_PROPERTY
648	18	778	WHERE FPropertyName_PK = * & FundPropName 115
649 650	19 Er_binFind_Click: 20 MegBox Err.Description	- 779 780	115

```
234 Elself TypeCf ProvCt is ListBox Then
255 adDiaStr = Ill(Var/type(ProvCt) > V_NULL_ ProvCt.")
256 Estelf TypeCf ProvCt is ComboRw Then
257 adDiaStr = Ill(Var/type(ProvCt) > V_NULL_ ProvCt.")
258 Estel
259 adDiaStr = Ill(Var/type(ProvCt) > V_NULL_ ProvCt.")
259 adDiaStr = Ill(Var/type(ProvCt) > V_NULL_ ProvCt.")
250 Estel
250 Estel
251 Estel
252 Estel
253 Estel
254 Est. Commend14_Click
255 Ent Sub
256 Estel
256 Ent Sub
256 Estel
257 Est. Commend14_Click
258 Ill (Err = ERR_CBUNOTEXIST) Or (Err = ERR_CBUNOTSET) Then
259 Resume Rest
250 Ent Sub
256 Fries ab Sub Corrator_Enter()
257 Estel
258 Ill MacCorrator_Value = "in" Then
259 MacBox "Prover", Valud Fromfort, Tubulmotized Action*
250 Enter Sub
                                                                                                                      *Forces user to enter data for property name and description
If IsskalkMe-PropertyPers, PK Value) Cr IsskalkMe. Description. Value)
MethatronGel Establid = False
MethatronGel Establid = False
MethatronGel Establid = False
MethatronGel Victoria = False
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Formal
urce =
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Allows the user to enter values for the fundamental equation
                                                                                                                                            rmFundamentalPropertylsub/rmFundamentalPropertyListValue_FK.RowSo
                                                                                                                                        #504.
Else
'Update the Potential Value 1st
strSQL = "SELECT DISTINCT" & MelMarineFleid & "FROM
                                                                      FormstimmFur ros = $45 SQL 140 N 141 M 142 End 143 Set associated will 145 FPro 146 End II 147 148 149 150 End Sub 151 152 Private Sub 152 Private Sub 152 Private Sub 153 Pri
                                                                                                                                            mFundamentalProperty!subtrmFundamentalProperty!cmbValue FK.RowSou
                                                                                                                         strSOL
MetsubtrmFundamentalProperty.Visible = True
MetsubtrmFundamentalPropertyList.Visible = False
End If
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 263 End Sub
Form: ImmCanerateReport
Code

1 Altribute VB_Practable = "Form, firmCenerateReport"
2 Altribute VB_Creatable = True
3 Altribute VB_Practable = True
4 Altribute VB_Practable = True
5 Cipton Compare Datablese
6 Cipton Explicit
7 Private Sub bitNassignmentReport_Clck()
9 DoCmd_OpenReport "rpbassignedMarines", ac ViewProview
11
12 End Sub
                                                                                                          'Set focus to the property name, This prevents problem 
scialed with entering the "Operator" object. 
FPropertyName_PK.SetFocus 
End III
                                                      Private Sub FPropertyName_PK_AfterUpdate()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1ac)
194 End Sub
195
195 Private Sub Operator_AfterUpdate()
197
198 If FormattmiFundamentalProperty. Operator. Value = "in" Then
199 WebsubtrimFundamentalProperty. Valide = False
199 WebsubtrimFundamentalProperty. Valide = False
200 MetsubtrimFundamentalProperty. Valide = True
201 MetsubtrimFundamentalProperty. Valide = True
202 MetsubtrimFundamentalProperty. Valide = False
203 MetsubtrimFundamentalProperty. Valide = False
204 End Sub
205 End Sub
206 End Sub
207 Private Sub binDelete_Click()
208 On Error GoTo Em_binDelete_Click()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      56 Exit Sub
57
58 Err_Command8_Citick
59 MegBax Err.Descripson
60 Resume Exit_Command8_Citick
61
62 End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Form: frmimport/ExportSwitchhoard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matthok VB, Name » "Form Imimport/ExportSwitchboard Athitok VB, Creatable of The Admitske VB, Creatable of The Athitok VB, Creatable of The Athitok VB, Exposed = False Option Compare Database Option Exposed = False = Fals
                                                      200 Ch. Error CoTic Err_binDelete, Cr
2009
211 DoCmd DoMerultem acFormé
212 DoCmd DoMerultem acFormé
213 214 Erlt binDelete, Cicic
215 Ett Sub
216 217 Err_binDelete, Cicic
218 Micgidox Err. Description
219 Fessure Erlt_binDelete_Cicic
220 221 Erd Sub
                                                                                                 DoCmd,DoMenuliem acFormBar, acEdifMenu, 8, , acMenuVer70
DoCmd,DoMenuliem acFormBar, acEdifMenu, 6, , acMenuVer70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Exit_binExit_Click:
Exit Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Err_binExit_Click:
MegBox Err.Description
Resume Exit_binExit_Click
                                                220
221 End Sub
222 Finals Sub Command14_Click)
222 Finals Sub Command14_Click)
222 Ch Ernr GoTo Enr_Command14_Click
225 Ch Ernr GoTo Enr_Command14_Click
226 Chm BrOadSir As Shing
227 Const ERR_COLANITEMST = 2467
228 Const ERR_COLANITEMST = 2467
239 Set PrivOTI = Screen, PreviousControl
231
231
232 If TypeOT PrivOTI Is TeadSex Then
233 subaStr = III(VarType(PrisOT) > V_NULL, PrivOTI.**)
                                                            221 End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ford Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Private Sub btnExportRD3_Click()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Application.SelOption "Cortifirm Action Queries", False
DoCritt.SelfWarnings (False)
"Export assignments to RIO3 bit file
Export RIO3
"Acrithies data from the Martine and assignment tables, having report
see less than the current date
```

41	31 ArchiveData 32 Application.SetOption "Confirm Action Queries", True	1171	65
42		1172	66 declare the temporary string as an array
43	33 DoCmd.SetWarnings (True)	1173	67 ReDim strTemp(0) As String
44	34	1174	68
45	35 End Sub	1175	69 'Find the position of the first space
46	36	1176	70 intSpacePos = InStr(strInName, **)
47	37	1177	71 72 *Loop until no more spaces are found. InStr returns 0 if the
48	38 Private Sub Command2_Click()	1178	
49	39	1179 1180	space is not found. 73 Do Uniti IntSpacePos = 0
50 51	40 Dim stDocName As String 41 Dim stLinkCritoria As String	1181	74 'redimension the array, adding another element
52	42	1182	76 ReDim Preserve strTemp(UBound(strTemp) + 1)
53	43 Application.SetOption "Confirm Action Queries", False	1183	
54 55	44 DoCmd.SefWarnings (False) 45 Imports the RD1 file	1184 1185	77 78 sat the new element to the characters from the beginning of
56	46 ImportRD1 47 Application.SetOption "Confirm Action Queries", True	1186	79 string up to the first space. Left\$ returns a number of
57		1187	characters
58 59	48 DoCmd.SefWarnings (True)	1168 1169	 from the beginning of a string strTemp(UBound(strTemp)) = Trim\$(Left\$(strInName, intSpacePos
60	50 Close the current form 51 DoCmd Close	1190	82
61		1191	83 'now we've copied these characters into the name, they can
62	52 'Open specified form	1192	84 'removed from the original string. Right\$ returns a number
	53 stDocName = "IrmChangeGradDate"	1193	85 'characters from the end of the string. It is the rightmost
63	55 DoCmd.OpenForm stDocName, , , stLinkCriteria	1194	86 'characters, therefore we subtract the position of the space
64	55	1195	87 'the length of the string. This gives us the number of
65 66	56 End Sub	1196	characters remaining.
67	57	1197	89
68	58 Private Sub Command4_Click()	1198	
69	59	1199	90 find the next space
70	60 'Imports BNA, bt file	1200	91 intSpacePos = inStr(strInNerne, "") 'Or intSpacePos =
71 72	61 Application SetOption "Confirm Action Queries", False 62 DoCmd SetWarnings (False)	1201 1202	inStr(strinName, "(") 'Or intSpacePos = InStr(strinName, ")") 92
73	63 Docmd Runsci. "DELETE" FROM BNA_EXTRACT;" 64 Import9NA	1203	93 Loop
74		1204	94
75	65 Application SelOption *Confirm Action Queries*, True	1205 1206	95 ' Remove the last element of the array, unless there is only one element left
76 77	66 DoCmd.SefWarnings (True) 67	1207	96 If UBound(strTemp) > 1 Then
78	68 End Sub	1208	97 ReDim Preserve strTemp(UBound(strTemp) - 1)
79	69	1209	98
80	70 Private Sub Command8_Click()	1210	99 'Loop through the elements of the array and place them back
81	71	1211	into the togical equation expression
62 63	72 On Error GoTo Err_Command6_Click 73	1212 1213	100 For i = 1 To (UBound(strTemp)) 101 strUndo = strUndo & strTemp(i) & ""
84 .	74 Dim stDocName As String 75 Dim stLinkCriteria As String	1214	102 Me.LogicalEquation.Value = strtindo
85		1215	103 Next i
96	76	1216 1217	104 Else 105 "Set the logical equation equal to "Null"
67 68	78 DoCmd,Close	1218	106 Me.LogicalEquation.Value = "("
89	79 'Open specified form	1219	108
90	80 stDocName = "fmRDM_Main_Switchboard"	1220	
91	81 DoCmd.OpenForm stDocName, , , stLinkCriteria	1221	109 'Set logical equation expression egual to new value
92	82	1222	110 End If
93	83 Exit_Commend8_Click:	1223	111
94	84 Exit Sub	1224	112 End Sub
95	85	1225	113
96	86 Err_Commend8_Click:		114 Private Sub Command11_Clici()
97 98	87 MsgBax Err. Description 88 Resume Exit_CommandS_Click •	1227	115 116 'Forces user to enter data for property name and description
99	89	1229	 117 ili ishluli(Me.LPropertyName_Pic.Value) Or Ishluli(Me.Description.Value) 118 MelCommand8.Enabled = False
00	90 End Sub	1230	
01		1231	119 Mei Command9. Enabled = False
03	π: tmLogicalProperty Code	1233	121 MelcmbFundProp.Enabled = False
04	1 Attribute VB_Name = "Form_frmLogicalProperty" 2 Attribute VB_Creatable = True	1234	122 Melcmbl.ogOper.Enabled = False
05		1235	123 Mell.ogicalEquation.Enabled = False
06	3 Altribute VB_Predeclaredid = True	1236	124 MegBox "You must provide a 'Property Name' and 'Description'
07	4 Altribute VB_Exposed = False	1237	before building the logical equation."
08	5 Option Compare Database	1238	125
09	6 Option Explicit	1239	126 'Enters a "(" be the first entry in the logical equation if it is
10	7	1240	127 Elself IsNul(MelLogicalEquation, Value) Then
	8 Private Sub btmClose Click()	1241	128 MelCommand8, Enabled = True
12	9 On Error GoTo Err_bitnGlose_Click	1242 1243	129 Mel Command9, Enabled = True 130 Mel Command10, Enabled = True
14	11	1244	131 MelcrobrundProp.Enabled = True
15	12 DoCmd Close	1245	132 MelcroblogOper.Enabled = True
16	13 DoCmd.OpenForm "frmMaintenanceSwitchboard"	1246 1247	133 MeiLogicalEquation.Enabled = True
17 18	14 15 Ed_binClose_Click:	1248	135
19	16 Exit Sub	1249	136 'Allows the user to enter values into the logical equation 137. Else
20	17	1250	
21	18 Err_binClose_Click: 19 MsgBox Err.Description	1251	138 MelCommandB, Enabled = True
22		1252	139 MelCommand9, Enabled = True
23	20 Resume Exit_binClose_Click	1253	140 MelCommend10.Enabled = True
24	21	1254	141 MelcmbFundProp.Enabled = True
25	22 End Sub	1255	142 MeicmbLogOper.Enabled = True
26		1256	143 MeiLogicalEquation.Enabled = True
27	24 Private Sub cmbFundProp_Click() 25	1257	144 End II
28		1258	145
29	26 Adds the selected fundamental property to the topical equation	1259	146 End Sub
30	27 Me.LogicalEquation.Value = Me.LogicalEquation.Value & Me.cmbFundProp.Value & "	1260	147
31		1261	148 Private Sub Command8_Click()
32	28	1262	149 150 'Adds the left bracket to the logical equation
33	29 End Sub	1263	
34	30 Private Sub cmbLogOper_Click() 31	1264	151 Me.LogicalEquation.Value = Me.LogicalEquation.Value & "("
35		1265	152
36	'Adds the selected logical operator to the logical equation Me.LogicatEquation.Value = Me.LogicatEquation.Value &	1266	153 End Sub
37		1267	154 Private Sub Command9_Click()
36	Ms.cmbLogOper.Value & ** 34	1268	155
39		1269	156 *Adds the right bracket to the logical equation
40	35 End Sub 36	1270 1271	157 Me.LogicalEquation.Value = Me.LogicalEquation.Value & ") " 158
41	37 Private Sub cmbLPropertyNameFind_AfterUpdate()	1272	159 End Sub
42		1273	160 Private Sub binDelate_Click()
43 44	38 39 Dim R As Recordset	1274	161 On Error GoTo Err_binDelete_Click
45	40 Set R = Me.RecordsetClone 41 R.FindFirst TLPropertyName_PK] = * & Chr(34) &	1275	162
46		1276	163
47	Mei[cmbl.PropertyNameFind] & Chr(34) 42 Me.Bookmark = R.Bookmark	1277	164 DoCmd.DoMenultem acFormBar, acEditMenu, 8, , acMenuVer70
48		1278	165 DoCmd.DoMenultem acFormBar, acEditMenu, 6, , acMenuVer70
49	43 Mei[cmbl.PropertyNameFind] = Null 44 Mei.PropertyName_PK.SetFocus	1279	166
50		1280	167 Ent_bin Delete_Click:
51	45 End Sub	1291 1292	168 Exit Sub
52 53	47	1263	170 Err_binDelete_Click:
	48 Private Sub Command10_Click() 49	1284 1285	171 MsgBox Err.Description 172 Resume Ext_btnDelete_Click
54	50 'Removes the last entry in the logical equation	1296	173
55		1287	174 End Sub
54 55 56 57	51	1288	175 Private Sub Description_AfterUpdate()
55 56		1289	176
55 56 57 58 59 60	52 Dim strlnName, strUndo As String 'Input name Dim IntSpacePos As Integer 'position of the space 54 Dim 1 As Integer 'loop index	1289 1290 1291	177 ' Forces user to enter data for property name and description
55 55 57 58 59 60 61 62	52 Dim stinktame, stitutio As String 'Input name 53 Dim InSpacePos As Integer 'position of the space 54 Dim 1 As Integer 'bop index 55 Dim booResult As Boolean 55 Dim IngConversion As Long	1290 1291 1292	 177 Forces user to enter data for property name and description 178 If Ishuti(Ms.LPropertyName_PK.Value) Or Ishuti(Me.Description.Value) 179 MetCommends.Enabled = False
55 55 55 57 58 58 60 61 62 63 64	52 Dim shinklame, shindo As Shing 'Input name 53 Dim IniSpacePos As Integer 'position of the space 54 Dim I As Integer 'bog index 55 Dim booResuft As Boolean 56 Dim IngConversion As Long 57 Dim varConv As Variant 58	1290 1291 1292 1293 1294	177 Forces user to enter data for properly name and description. 178 If Ishkali(Me.L.ProperlyName_PK.Value) Or Ishkali(Me.Description.Value) 179 MelCommand8 Enabled = False 180 MelCommand9.Enabled = False 181 MelCommand9.Enabled = False
55 56 57 58 59 60 61 62 63 64 65 66	52 Dim shinklame, shinton As Shing 'Input name 53 Dim IniSpacePos As Integer 'position of the space 54 Dim I As Integer 'loop index 55 Dim borResult As Boolean 56 Dim IngCornersion As Long 57 Dim varCorv As Variant 58 59 60 'get the logical expression	1290 1291 1292 1293 1294 1296 1296	177 Fotos user lo enter data for properly name and discription 178 If Ishalifike LP-roperly Name, PK Value) Or Ishalifike Description. Value) 179 Met Commands Enabled = False 180 Met Commands Enabled = False 181 Met Command Description = False 182 Meternibrung Prop. Enabled = False 183 Meternibrung False = False 184 Meternibrung False = False 185 Meternibrung False = False 186 Meternibrung False = False 187 Meternibrung False = False
55 55 55 55 55 55 56 56 56 56 56 56 56 5	52 Dim stinktene, stituted As Sting 'Input name 53 Dim inScaePos As Integer 'position of the space 54 Dim I As Integer 'Input name 55 Dim boolesuit As Boolean 56 Dim boolesuit As Boolean 57 Dim Ing/Conversion As Long 58 59	1290 1291 1292 1293 1294 1295	177 Forces user to enter data for property name and disscription 78 It I IshAir(Mo L. Property/Name_PK Value) Or IshAir(Me Description Value) 79 MetCommends Enabled = Faise 181 MetCommends Enabled = Faise 181 MetCommends Enabled = Faise 181 MetCommends Enabled = Faise 182 MetCommends Enabled = Faise

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Mel Commends Enabled = True

Mel Indepts | Mel Commends | Mel Commends | Mel Logical Equation | Mel Commends | Enabled = True

Mel Commends | Mel Logical Equation | Mel Commends | Mel Logical Equation | Mel Commends | Mel Co
35
36 Exit_Commend0_Citcle
37 Exit Sub
38 Err_Commend0_Citcle
39 Err_Commend0_Citcle
40 MagBox Err_Descript
41 Resume Exit_Comme
42
43 End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Err_Commend0_Click
MsgBox Err.Description
Resume Ext_Commend0_Click
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Private Sub Command12_Click()
On Error GoTo Err_Command12_Click
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         48 Dim stDocName As String
49 Dim stDinktrikeria As String
50
51 Close the current form
50 DoCmd.Close
53 'Open specified form
50 String String
55 DoCmd.OpenForm stDocNam
55 DoCmd.OpenForm stDocNam
56 Exit Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          'Close the current form
DoCmd.Close
'Open specified form
stDocName - "fmSchools"
DoCmd.OpenForm stDocName, . . stLinkCriteria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Err_Commend12_Click:
MagBox Err.Description
Resume Exit_Commend12_Click
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 66 Private Sub Command14_Click()
67 On Error GoTo Err_Command14_Click
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          From Early Command 14_Cisk

Dim stDockhame As String

Dim stDockhame As String

Dockmich Chairs As String

Cose the current from

DoCmd.Cose

Cose the current from

StDockhame = "ImmPEF"

DoCmd.Cose

StDockhame = "ImmPEF"

DoC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   * Close the current form
DoCmd Close
*Open specified form
stDockhare = *ImPEF
DoCmd OpenForm stDockhare, , , stLinkCriteria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Private Sub Command2_Click()
On Error GoTo Err_Command2_Click
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          77 Private Sub Command, Cacky)
88 On Error Gofo Err, Command, Cack
89 Dim #Enchanne As String
90 Dim #Enchanne As String
91 Dim #Enchanne As String
91 Dim #Enchanne As String
92 Dim #Enchanne As String
93 Close She current from
94 DoCrnd, Close
95 Copen specified form
95 DoCrnd, Copeniform #Enchanne As
96 Est, Command2, Click
100 Est Sub
100 Erro, Command2, Click
101 MayBox Erro, Description
102 Err, Command2, Click
103 MayBox Erro, Description
104 Fassume Eab Command2, Click
105 DoPrivate Sub Command4, Click(1)
106 Private Sub Command4, Click(1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           * Close the current form
DoCrnd, Close
* Open specified form
stDocNeme = "frmFundementalProperty"
DoCrnd, OpenForm stDocName, . , stLinkCriteria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         108 Private Sub Command4_Click()
109 On Error GoTo Err_Command4_Click
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  109 On Error GoTo Err_Commands_Cisck
110
111 Dim sDochham & String
112 Dim stinkCriteria As String
113
114 'Close the current form
115 DoCmd.Close
116 'Open specified form
117 stDochkame = "Imn.ogicalProperty"
118 DoCmd.Openform stDochkame, , stLinkCriteria
119
120 Ext. Commands_Cisck:
121 Ext Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              120 Exit_Command4_Cacx;
121 Exit Sub
122
123 Err_Command4_Cack
124 MsgBox Err.Description
125 Resume Exit_Command4_Cack
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         126
127 End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  128
129 Private Sub Command6_Click()
130 On Error GoTo Err_Command6_Click
131
                                                                                      Form: frmMaintenanceSwitchboard
                                                                                                     mr. frm/karmetarcosvers.posco.
Code

1 Attibute VB, Name = "Form, frm/keinienanceSwitzhboard"

2 Attibute VB, Createble = True

3 Attibute VB, Pradeclaredd = True

4 Attibute VB, Exposed = False

5 Option Compare Databasee

7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   129 Private Sub Commende, Cick()
130 Chi Erro Grofo Fir, Commende, Cick
131 Dim stDocherne Au String
132 Dim stDocherne Au String
133 Dim stDocherne Au String
134 Docher Chee
135 'Close the current from
136 DoCred, Close
137 'Open specified form
138 stDocherne - "ImSchoolTopropertyMein"
139 DoCred, Close
139 DoCred, Open-Form stDocherne, ... stLinkCriteria
140
141 Est Lommende, Cick
142 Est Sub
143 Est Sub
144 Err, Commende, Cick
145 Megibox Err Description
146 Festerne Ett, Commende, Cick
147
148 End Sub
149
150 Private Sub Commende, Cick
147
150 Private Sub Commende, Cick
148
150 Private Sub Commende, Cick
150 Dim stDocherne Au String
154 Dim stLinkCriteria Au String
155 Dim stDocherne Au String
155 Dim stDocherne Au String
156 'Close the current form
157 DoCred, Close
158 'Close the current form
159 DoCred, Close
159 'Close the current form
150 DoCred, Close
150 Close the current form
150 DoCred, Close
150 Close the current form
155 DoCred, Close
156 'Close the current form
157 DoCred, Close
158 'Close the current form
158 'Close the current form
159 DoCred, Close
150 Est Sub
154
155 Est Sub
                                                                                                     8 Privete Sub binExit_Click()
9 On Error GoTo Err_binExit_Click
10
11
                                                                                                                 12 DoCmd.Close
13
14 Exit_binExit_Clicic
15 Exit Sub
                                                                                                         16
17 Err_bhErit_Click:
18 MagBox Err.Description
19 Resume Exit_bhErit_Click:
20
                                                                                              222 End Sub
23 Private Sub Commencio, Ciciri,
25 On Error GoTo Err_Commendo, Cicir
26 Dim stlnichmen As String
27 Dim stlnichmen As String
28 Dim stlnichmen As String
29 Comment of Commen
                                                                                                                                           Close the current form
DoCmd Close
Open specified form
StDockmen = "ImSchoolToPEF_Maint"
DoCmd OpenForm stDockmen . . . atLinkCriseria
```

```
165 Err_Commend8_Click
166 MegBox Err.Description
167 Resume Ext_Command8_Click
168
169 End Sub
                                                                                                                                                                                                                                                                                                                                                             1561
1562
1563
1564
1565
1566
1567
1570
1571
1572
1573
1574
1575
1576
                   Form: frmPEF
                                       ode
Attribute VB_Name = "Form_trmPEF"
Attribute VB_Creatable = True
Attribute VB_Predectaredid = True
Attribute VB_Predectaredid = True
Attribute VB_Predectaredid = True
Option Compare Database
Option Explicit
                                          Private Sub cmbPefFind_AfterUpdate()
                                       Dim R.As Recordsol
Sel R. = Ms. RecordsolCone
R. FindFirst "PEF_PK] = " & Ctv(34) & Mel(cmbPelFind] & Ctv(34)
Ms. Bockmank = R. Bookmank
Mel(cmbPelFind) = Nal
Ms. PEF_PK_SelFocus
Megisan Err Description
Flourne Ett Libr/PehamProvious_Click

68

70

71 End Sub
72

73 Private Sub Command4_Clck()
74 Appleation Sel/Option Tomlirm Action Queries*, False
75 DoCmd FlanSCU (*Delter* Prom AMPL_PESULT;
77 Ampl. Pesult
78 Appleation-Sel/Option Tomlirm Action Queries*, True
79 DoCmd SelfVarrings (True)
80

81 End Sub
82

83 Private Sub Command7_Clck()
84 On Error GoTio Err, Command7_Clck
85

86 Dim stDoctharm As Shring
87 Dim st_inicCriteria As Shring
88 "Close the current form
99 DoCmd Close
91 "Open specified form
90 DoCmd Close
91 "Open specified form
90 DoCmd Close
91 "Open specified form
95 stDochmore = "fm/AnalyzoResult"
95 Ett_Command7_Clck:
96 Edit Sub
97

97 Err, Command7_Clck:
98 Begister Ent Sescription
100 Error Sub Command7_Clck
101 Est Sub
97

98 Err, Command7_Clck:
102 End Sub
103 Err. Command7_Clck
104 Est Sub
105 Error Command7_Clck
105 Est Sub
106 Error Command7_Clck
107 Est Sub
108 Error Command7_Clck
108 Est Sub
109 Error Command7_Clck
109 Est Sub
100 Error Command7_Clck
100 Est Sub
100 Est
                                16
17 End Sub
                               18
19 Private Sub Form_BeforeUpdate(Cancel As Integer)
20
                                          [PEF_TimeStamp] = Now
                             22 End Sub 24 Private Sub Form_Current() 26 Dim strSQL As String 28
                                28
29 'Update the PEF List
30 strSQL = "SELECT DISTINCTROW [MARINE] [PEF] PROM MARINE LEFT JOIN PEF
ON [MARINE] [PEF] = [PEF], [PEF, PK]WHERE ([PEF], [PEF, PK] Is Nut)OPDER BY
31 Mo-PEF, PK PlandSurgor = strSQL
                                          End Sub
                                34
35 Private Sub PEF_PK_AfterUpdate()
                                           Dim strSQL As String
                                38
9 'Updato the PEF List
40 st9QL = "SELECT DISTINCTROW [MARINE] [PEF] FROM MARINE LEFT JOIN PEF
CON [MARINE] [PEF] = [PEF] [PEF_PK] Is NUTOROER BY
41 Mat PEF_PK RowSource = strSQL.
                                         End Sub
Private Sub binDelete_Click()
On Error GoTo Err_btnDelete_Click
                                48 DoCmd.DoMenultern acFormBar, acEditMenu, 8, , acMenuVer70
49 DoCmd.DoMenultern acFormBar, acEditMenu, 6, , acMenuVer70
                                                                                                                                                                                                                                                                                                                                                                                   Form: frmPreprocessing&ExecutionSwitchboard
                                50
51 Exit_binDelete_Click:
52 Exit Sub
                                                                                                                                                                                                                                                                                                                                                                                                      ode
Attribute VB_Name = "Form_trmPreproce
Attribute VB_Creatable = True
Attribute VB_Expectured(d = True
Attribute VB_Exposed = False
Option Compare Database
Option Explicit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 no&ExecutionSwitchboard
                                         Err_binDelete_Click:
MsgBox Err.Description
Resume Exl_binDelete_Click
                                          End Sub
Private Sub binClose_Click()
On Error GoTo En_binClose_Click
                                                                                                                                                                                                                                                                                                                                                                                              8 Private Sub btnExt_Click()
9 On Error GoTo Err_btnExt_Click
                                                DoCmd, Close
DoCmd, OpenForm "frmMaintenanceSwitchboard"
                                                                                                                                                                                                                                                                                                                                                                                                         DoCard Clase
                                                                                                                                                                                                                                                                                                                                                                                              14 Ext_binExit_Click:
15 Exit Sub
16
                               66 Exit_binClose_Click:
67 Exit Sub
68
                                                                                                                                                                                                                                                                                                                                                                                              16
17 Err_binExit_Click
18 MsgBox Err.Description
19 Resume Exit_binExit_Click
20
                               68
69 Err_binClose_Click:
70 MsgBox Err.Description
71 Resume Est_binClose_Click
72
73 End Sub
                                                                                                                                                                                                                                                                                                                                                                                          m: frmPrepareAndExecuteSolver
                                         ode
Attribute VB_Name = Form_trmPrepareAndExecuteSoker
Attribute VB_Creatable = True
Attribute VB_Predeclaredid = True
Attribute VB_Predeclaredid = True
Attribute VB_Exposed = False
Option Compare Database
Option Experie
                                          Private Sub bhAMPL_Click()
On Error GoTo Err_btnAMPL_Click
                                             AmplData
                                             Dim stAppName As String
                                                'stAppName = "C:\ToBeRdm\AmpMn\amp\mn.exe"
stAppName = "C:\ToBeRdm\AmpMn\amp.bat"
Call Shell(stAppName, 0)
                                                                                                                                                                                                                                                                                                                                                                                              43
44 End Sub
45
46 Private Sub binScrub/NarineData_Click()
47 On Error GoTo Err_binScrub/NarineData_Click
                                                "ManBox "Enter into the command line: "include rdm.run"
                               20
21 Edit binAMPL_Click
22 Edit Sub
                                                                                                                                                                                                                                                                                                                                                                                              48
49 Dim stDocName As String
50 Dim stLinkCriteria As String
51
                                          Err_binAMP1_Click:
Msg8ox Err. Description
Resume Ext_binAMP1_Click
                                                                                                                                                                                                                                                                                                                                                                                             51
52 'Close the current form
53 DoCmd.Close
54 'Open specified form
55 stDocName = 'IrmScrubNarine
56 DoCmd.OpenForm stDocName
57
58 Exit_bmScrubMarineDabt__Click
59 Exit_Sub
                                                                                                                                                                                                                                                                                                                                                                                                            *Close the current form
DoCmd.Close
*Open specified form
stDocName = "ImmScruthNarine"
DoCmd.OpenForm stDocName..., stLinkCriteria
                                   28 End Sub
                                          Private Sub bthAmpiPlus_Click()
On Error GoTo Err_bthAmpiPlus_Click
                                                                                                                                                                                                                                                                                                                                                                                               59 Ext Sub
60
61 Err_binScrubMerineData_Clicic
62 MegBox Err.Description
63 Resume Ext[_binScrubMarineData_Click
                                                Dim stanoName As String
                                              stAppName = "C:\AMPLPLUS\AMPLPLUS.EXE rdm.amp"
Call Shell(stAppName, 1)
                                38 Call Shell(sIAppName,
39
40 Enit_binAmpiPlus_Click:
41 Exit Sub
                                                                                                                                                                                                                                                                                                                                                                                                         Private Sub binSpecialAssignment_Click()
On Error GoTo Err_binSpecialAssignment_Click
                                42
43 Err_binAmpiPlus_Clicic
44 MsgBax Err.Description
```

```
55 DoCmd Close
56 'Open specified form
57 stDochame = "IrmMaintenanceSaitchboard"
58 DoCmd Copenform aftochame, ... stLinkCriteria
59
50 bit. Command2_Clock
41 Ext Sub
50 Err, Command2_Clock
42 Err, Command2_Clock
43 Err, Command2_Clock
44 Emissub Sub Command4_Clock
45 Private Sub Command4_Clock
46 Private Sub Command4_Clock
47 Emissub Sub Command4_Clock
48 Private Sub Command4_Clock
50 Dim stDochame As String
51 Dim stDochame As String
52 Dim stDochame As String
53 'Copes the current form
55 Copes the current form
56 Copes appointed form
57 stDochame = "IrmPreprocessing&ExecutionSwitz
58 DoCmd Close
59 DoCmd Copenform stDochame, ... stLinkCriteria
50 Err, Command4_Clock
                                                                                                                                                                        Dim stDocName As String
Dim stLinkCriteria As String
                                                                                                                         70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
Close the current form DoCmd Close Copen specified form stDochare - "ImSpecialAssignment" DoCmd OpenForm stDochare, , , stLinkCriteria
                                                                                                                                                                        Exit_binSpecialAssignment_Click:
Exit_Sub
                                                                                                                                                                        Err_bthSpecialAssignment_Click:
MagBox Err.Description
Resume Ext_bthSpecialAssignment_Click
                                                                                                                              87
88 End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                'Close the current form
DoCmd.Close
'Open specified form
stDockmer = "ImPreprocessing&ExecutionSwitchb
DoCmd.OpenForm stDockmere, ... stLinkChiteria
                                                                                                                                                               Private Sub Commend2_Click()
On Error GoTo Err_Commend2_Click
                                                                                                                 10 n Error Gafo Err_Commant2_Cack
10 DE Erro Gafo Err_Commant2_Cack
10 Dim stbochlame As Sking
10 De Cror Gafo Err_Commant2_Cack
10 De Cror Cace
10 Commant2_Cack
10 Exists Subsequent Cack
10 MagBox Err.Description
10 Resume Exist.Commant2_Cack
10 Exists Subsequent Cack
10 Exist
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            50 Eit Commands Cick
61 Est Sub
62 Eit Commands Cick
63 Est Sub
63 Err Commands Cick
64 Magdor Err Description
65 Err Sub
66 Err Sub
66 Err Sub
67 Erd Sub
68 Commands Cick
68 Commands Cick
69 Commands Cick
69 Commands Cick
70 Dim stDocName a String
71 Dim stDocName a String
72 Dim stDocName a String
73 Docnd Close
74 "Close for current form
75 Docnd Close
76 "Open specified form
77 Docnd Close
78 "Docnd Close
78 "Docnd Close
79 "Sub Commands Cick
79 Docnd Close
70 Est Sub
70 Est Sub
71 Sub Commands Cick
71 Est Sub
72 Est Sub
73 Err Commands Cick
74 End Sub
75 Err Commands Cick
75 End Sub
76 Err Sub
77 End Sub
77 End Sub
77 End Sub
78 Err Sub
78 Err Sub
78 Err Sub
79 Err Sub
79 Err Sub
70 Err Sub
                                                                                                                              108
109 End Sub
110 Private Sub Command4_Click()
                                                                                                                         111
Application SelCotion "Confirm Action Queries", Falbe
113 DoCrind SeWarning (Falbe)
114 DoCrind SesWarning (Falbe)
115 Angl. Pesult
116 Application SelCotion "Confirm Action Queries", True
117 DoCrind SelWarnings (True)
118
119
119
119
1107 DoCrind SelWarnings (True)
                                                                                                                         119
120 End Sub
121
122 Private Sub Command6_Click()
123 On Error GoTo Err_Command6_Click
                                                                                                                 122 On Error Golfo Err, Commands, Cicki
125 Den stDochlere As String
127
128 **Close the current form
129 **DoCret Close
129 DoCret Close
120 DoCret Close
120 DoCret Close
121 DoCret Close
122 DoCret Close
123 **DoCret Close
124 DoCret Close
125 DoCret Close
126 DoCret Close
127
127
128 **DoCret Close
139 **Location = TemPropareAndSecuteSoker**
129 DoCret Close
130 Existing = TemPropareAndSecuteSoker*
131 Existing = TemPropareAndSecuteSoker*
132 Existing
133 Existing = TemPropareAndSecuteSoker*
134 Existing = TemPropareAndSecuteSoker*
135 Existing
136 Medica for Description
137 Resume Exit_CommandSecuteSoker*
140 |
141 End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           102
103 Err_CommandB_Click:
104 MagBox Err.Description
105 Resume Est_CommandB_Click
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           105
106
107 End Sub
108 Private Sub binEsit_Cick()
109 On Error GoTo Err_binEsit_Cick
                                                                                                                 141 End Sub
142
143 Prinale Sub Command®_Cick()
1440 Perror GoTo Enr_Command®_Cick
145
146 Dem SDocName As Shing
147 Dim stünkCriteria As Shing
147 Dim stünkCriteria As Shing
148 December Substitution of Su
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           110
111
112 DoGmd,Close
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      112 DoCmt. Close
113
114 Earl; DerEarl; Clicic
115 Earl; Sub
116
117 Err_benet; Clicic
118 MagBox Err. Description
119 Resume Earl_benEarl_Click
121 End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Form: trmReclassification
Code
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Code

Code

1 Althoute VB, Paum = "Form_ImmReclassification"

Althoute VB, Creatable = True

Althoute VB, Exposed = False

Code Compare Database

Code Compare Database

Code Compare Database
                                                                               Form: fmRDM_Main_Switchboard
                                                                                                                                               ode
Afrikus VS, Namo = "Form, hmPDM_Main_Switchboard"
Afrikus VS, Chashbis = True
Afrikus VS, Chashbis = True
Afrikus VS, Esposed = False
Cycle = Carbon = Carbon
Esposed = False
Cycle = Carbon = Carbon
Frieste Sub Commando_Click()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Cydon Explicit

Private Sub cmbClassNamber_AlterLydate()

Dim strConvert As String

Dim strConvert As String

Mab DeSportDate - Ma cmbClassNamber_Colarm(2)

Mab DeSportDate - Ma cmbClassNamber_Colarm(2)

Mab DeSportDate - Ma cmbClassNamber_Colarm(2)

Mab DeSportDate - Ma cmbClassNamber_Colarm(3)

StrConvert he finally were to a two digit number for RDS File

strConvert - Scriptide_cmbcassNamber_Colarm(3))

Mab DeSportDate 
                                                                                                                                                   On Error GoTo Err_Command0_Click
                                                                                                                                                               Dim stDocName As String
Dim stLinkCriteria As String
                                                                                                                                                               Close the current form DoCnd Close (Conspecified form stDocName = "Immirport/Export/Switchboard" DoCnd OpenForm stDocName, , , sd.inkCrieria.
                                                                                                                                                   Exit_Command0_Click:
Exit Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28 Dim strSCL As String
29 This super year for the class rumbers, report dates and class
convering dates especiated with the chosen saled
29 stSCL = SELECT SNA_CONTROL CLASSEARCH Prop. PK
8NA_EXTRACT.CLASSEARCH PROP. EXTRACTION FOR SNA_EXTRACT CHOSEN
8NA_EXTRACT.CLASSEARCH PROP. EXTRACTION FOR SNA_EXTRACT INNER JOIN
SCH_CIT_MOS. STORE STREAM SNA_EXTRACTION FOR SNA_EXTRACT INNER JOIN
SCH_CIT_MOS. TO Consensativate, PK, NA_EXTRACTION FRACTION FOR SNA_EXTRACT
SCH_CIT_MOS.TO Consensativate, PK, NA_EXTRACT.CLASSEARCH PK =
SCH_CIT_MOS.TO Consensativate, PK, NA_EXTRACT.CLASSEARCH PK =
Formal Implication control consensativation and SCH_CIT_MOS.AMOS.PK =
Sometime for the state of the sna_extraction of t
                                                                                                             22
23 Err_Commend0_Click
24 MsgBox Err.Description
25 Resume Exit_Commend0_Click
26
                                                                                                                                               End Sub
Private Sub Command2_Click()
On Error GoTo Err_Command2_Click
                                                                                                                                                   Dim stDocName As String
Dim stLinkCriteria As String
                                                                                                                                                           'Close the current form
```

```
52 Me.bd7
53
54
55 End Sub
                                                                       Me.bdTobsPercentFill = Int((Me.bdTobslAssigned / Me.bdTobslQuota)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20012 20082 20083 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 20092 
                                                                                                           Me.biAMOS = MelcmbCourseNumber,Column(1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Form: ImmSchools

1 Attribute VB_Name = "Form_ImmSchools

2 Attribute VB_Creatable = True

3 Attribute VB_Predestingerdid = True

4 Attribute VB_Exposed = False

5 Option Compare Calabase

6 Option Explicit
                                                                            7
8 Private Sub AMOS_PK_AtterUpdate()
9 Dimirec As Recordeet
10 Dimirec As Database
11 Dimirec As String
                                                                            47 Private Sub cmbSSN Enter()
                                                                                                           Dim strSQL As String
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | United / Students | Unit
                                                                                                                stSQL = "SELECT DISTINCTROW MARNE.SNLPK, MARINE.SQL
INE. GRADONE FROM MARINE LEFT JOIN ASSIGNMENT ON MARINE.SSNLPK =
(GAMENT.SSNLPK WHERE (((ASSIGNMENT.SSNLPK) In Null));"
MacmbSSN.RowSource = stSQL
                                                                       55
6 Privets Sub cmbSSNFind_AfterUpdate()
57
58
50 Im R As Recordset
59
58 IR = Me RecordsetCore
59
59
61
61
Me Boolsmark = Recordsmark
61
61
Me Boolsmark = Recordsmark
62
Mell(mSSNFind) = Nul
63
Mell cmbSSNFind) = Nul
64
65
End Sub
65
End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Dim R As Recorded
Set R – Ms RecordedCone
R FindFirst* (ISSN FR) = "& Chr(34) & Mel(cmbSSNFind] & Chr(34)
Mel(cmbSSNFind) = Null
Mel(cmbSSNFind) = Null
MecmbSSN-SetCous
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         'Ubdate the TargetMOS_FK in the child relation SCH_TGT_MOS
Set db. = CurrenDb()
Set nc. = bt. OpenPscordset(stSCL, dbOpenSnapshot)
Formal(rmSchoole!aubtrmSchoole!TargetMOS_FK Value = nccfTargetMOS_FK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                input the correct MCC value for the selected course
in financial and a selected course
sSCourseNumber (PK = " &
SSCourseNumber (PK Value & " "
Set ob = CurrentDe)
No Hore - ob i OpenRecorded(strSCL, dbOpenSnapshot)
M&MCC Value = recIMCC
                                                                                                  Private Sub Delete_Click()
On Error GoTo Err_Delete_Click
                                                                                                                DoCmd.DoMenultem.acFormBar, acEdiMenu, 8, , acMenuVer70
DoCmd.DoMenultem.acFormBar, acEdiMenu, 6, , acMenuVer70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          35 End Sub
36 Private Sub bhrClear_Click
39
40 Dim dol As Database
41 Dim st SCI. As Shing
42 Dim i As Integer
43 Dim rea A Pecordeet
44
45 Set dol = CurrentDb()
46
47 st SCI. = "SELECT DIS"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Private Sub btnClear_Click()
                                                                          82
83 Private Sub Close_Click()
84 On Error Go?o Err_Close_Click
85
                                                                       85 Dim stDocName
75 Dim stLinkCriteria
86 Close current le
90 DoCmd Close
91 Cpen specified
92 'Open specified
93 stDocName = 'I'm
94 DoCmd Openfor
95
96 Etit_Close_Click
97 Epit Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        45 Set do 1 = CurrenDO)
46 set Cu = SELECT DISTRICTROW TARGET_MOS.Tocurrenkumber_PK FROM
47 set Cu = SELECT DISTRICTROW TARGET_MOS.Tocurrenkumber_PK
ARGET_MOS LEFT_MON SCH_TGT_MOS ON TARGET_MOS.Tocurrenkumber_PK
SCH_TGT_MOS List_philot_SCH_AND TARGET_MOS.Tocurrenkumber_PK
SCH_TGT_MOS List_philot_SCH_AND TARGET_MOS.Tocurrenkumber_PK
SCH_TGT_MOS List_philot_SCH_AND TARGET_MOS.Tocurrenkumber_PK
SCH_TGT_MOS List_philot_SCH_AND TARGET_MOS LIST_PK
SCH_TGT_MOS LIST_PK

                                                                                                           Dim stDocName As String
Dim stLinkCriteria As String
                                                                                                           * Close current form
DoCmd.Close
                                                                                                           *Open specified form
stDocName = "IrmPreprocessing&ExecutionSwitchboard"
DoCmd.OpenForm stDocName, , , stLinkCriteria
                                                                            98
99 Err_Close_Click:
100 MegBox Err.Description
101 Resume Exit_Close_Click
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ote
Adribus VB, Name = "Form_IrmSchoolAssignments"
Adribus VB, Cheabib = True
Adribus VB, Cheabib = True
Adribus VB, Expedicared of True
Adribus VB, Expedicared of True
Adribus VB, Expedicared of True
Cysin Compres Dabbase
Opsin Ciptici
Privale Sub Close, Click()
On Error GeTo Err_Close, Click
                                                                            1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 1 22 23 24 25
                                                                                                             Dim stDocName As String
Dim stLinkCriteria As String
Dim db1 As Database
                                                                                                                Set db1 = CurrentOb()
                                                                                                                   *Close the current form 
DoCmd. Close *Cpen specified form 
*Open specified form 
*SDochlame = *frmAnalyzeResulf** 
DoCmd.OpenForm stDochlame, _, stLinkCriteria 
FormstIrmAnalyzeResulf. Self-ocus
                                                                                                        Exit_Close_Click:
Exit Sub
                                                                       Se crist Sub
Service Sub cmbCourseNamberFind_AlterUpdate()
Set Ra Me Recorded
Set Ra Me R
                                                                                                                   "Calculates the total quota, and number of schools for the run. 
srSQL = SELECT Surn(Sturne) AS TotalQuota, Count(SurnClQuota) AS TotalQuota, Count(SurnClQuota) AS 
serViSchoola FROM (vr)(foliaQuota ForPair." 
Set res - db) (spenifecontast(drSQL, db)(speniSnapshot) 
Ma tof(anQuota - restTotalQuota ) 
Ma tof(anQuota - restTotalQuota ) 
Ma tof(anQuota - restTotalQuota )
                                                                                                                      *Cabulation the total number of emignoments for the run.

strSCL = "SELECT Surf.CountOffscalled". PNO AS TotalAssigned FRCM

tabLoats Fladic of Plan.*

Sel new -db1.Cpon-Recordset(strSCL, dbCponSnapshot)

Me.btTotalAssigned = rectTotalAssigned
```

```
222 Not writin
223 'Update the Target MOS list
224 'Update the Target MOS list
225 strSQL = "SELECT (TargetMOS, PK) FROM (SCHL/TGT_MOS) WHERE
(SCGLISSANDER, PK) = "A FormaltimiSchoolal/SCGLISSANDER, PK, Value & "AND ANOS, PK = "A FormaltimiSchoolal/ANOS, PK, Value & "
226 FormaltimiSchoolal/ListTargeMOS, PK, Ustory, PowSource = setSQL
*AND Annual Temperature of the Course Number of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            229 erSCI. * SELECT TargMACS_PK_RDM
yrUsthusedTargMACS_PK_RDM
yrUsthusedTargMACS_PK_RDM
201
NebtTargMACS_PK_RDMSource = strSCI.
211
122 * Update the Course Number List
23 * strSCI. * SELECT DISTRICTHOW TARGET_MCS_TCOurseNumber_PK_RDM
TARGET_MCS_LEFT_JOIN SCH_TCT_MCS_CN_TARGET_MCS_TargeMCS_PK_SCH_TCT_MCS_TargeMCS_PK_SCH_TCT_MCS_TargeMCS_PK_SCH_TCT_MCS_TargeMCS_PK_SCH_TCT_MCS_TargeMCS_PK_SCH_TCT_MCS_TargeMCS_PK_SCH_TCT_MCS_TCR_MSOURCE = strSCI.
256 * [SCH_TTMSSarpf] = Now
258 End Sub
269 End Sub
                                                                                                                                                            'Save the update DoCmd.DoMenutern acFormBar, acRecordsMenu, acSaveRecord, ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             256 'Upolais time stamp
257 (Sch_TimeStamp) = Now
258 (Sch_TimeStamp) = Now
259 (Sch_TimeStamp) = Now
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255 (Sch_TimeStamp) = Now
256 (Sch_TimeStamp) = Now
257 (Sch_TimeStamp) = Now
258 (Sch_TimeStamp) = Now
259 (Sch_TimeStamp) = Now
250 (Sch_TimeStamp) = Now

                                                                                           146 Me.SC
147
148 End Sub
149
                                                                                           190 "upcase mis eSELECT (TragnaMoS, Pk) FROM (SCH_TST_MOS) WHERE
191 astSQL = "SELECT (TragnaMoS, Pk) FROM (SCH_TST_MOS) WHERE
2 Format (Schadulin (Schadu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             307 Private Sub SCourseNamber_PK_AherUpdate()
309 Dim rec As Recorded
310 Dim rec As Recorded
311 Dim dot As Database
312 Dim SSC As String
313 'Update the drop down list for AACS
314 'Update the drop down list for AACS
315 stSCs - SELECT impreMICS_PK PROM TARGET_MOS WH-EPE TCourseNamber_PK
= * 4 Ma SCourseNamber_PK_Value & = *
316 Ma_AMCS_PK Endeburg = stSCU,
317 'Nat_STEREPAICS_PK RevOcurse = stSCU,
318 'Abuse the user to enter an essigned MCS
300 MarkAMCS_PK_Endeburg = stSCU,
319 'Abuse the user to enter an essigned MCS
301 MarkAMCS_PK_Endeburg = stSCU,
319 'Abuse the user to enter an essigned MCS
302 MarkAMCS_PK_Endeburg = stSCU,
319 'Abuse the user to enter an essigned MCS
303 Indiana Sub betileties_Clock;
304 Clock Sub Sub String = stSCU,
305 Private Sub Brounds = stSCU,
306 Clock Sub Sub String = stSCU,
307 Application_SetSplan Continuation message,
308 'Debites the record associated with the specified value from the
SCU_TGT_MCS labe
301 Debites the record associated with the specified value from the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            332 Deletes the record association
SCHOOL table
333 Decirid OpenQuery "gryDeleteSCHOOLEnity"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   * Delates the record associated with the specified value from the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        333 "DoCmd.OpenQuery "gryLeeeessammen, 334 "Enables the action query confirmation message
```

```
27734 27735 27734 27735 27734 27735 27734 27735 27734 27735 27737 27735 27737 27735 27737 27735 27737 27735 27737 27735 27737 27735 27737 27735 27737 27735 27737 27735 27737 27735 27737 27735 27737 27735 27737 27735 27737 27735 27737 27735 27737 27735 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 27737 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  101
102 End Sub
103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10c crist Sub
10c Privale Sub RightNrrow, Clickt)
105 Dim tim As Form, cli As Control
106 Dim with As Variant, filed As Integer
107 Dim stSCDL As Shring
106
109 "This code Delets the selected Target MOS's and its essociable entries from the SCPL_TGT_MOS table
110 Set Inn = Formstimischool Cell EF_Maint
110 Set Inn = Formstimischool Cell EF_Maint
1112 For Each variet in icit. tiermsSchool
113 For int = 0 To ct. ColumnCount - 1
114
115
115
116 This past the water found in the list box into a test box, making it residable by the quary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1114 This puts the value found in the list box into a tent box, making it readable by the quary interestable properties of the properties of t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ;
i 'This puts the value found in the list box into a text box,
king it readable by the query
FormattrmSchoolToPEF_MaintPEFValue.Value = ctl.Column(int),
                                                                         Form: frmSchoolToPEF_Maint
                                                                                                                               Atribute VB_Name = "Form_ImSchoolToPEF_Main"
Atribute VB_Creatable = Trus
Atribute VB_Predeclaredid = Trus
Atribute VB_predeclaredid = Trus
Atribute VB_predeclaredid = Trus
Cybin Carptare Databases
Option Explicit
400120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120
                                                                                                  A Phalas Sub birClose, Cl.
Do Christ Close
On Error Gol'o Err_birCl
Do Christ Close
Do Christ Close
Do Christ Close
Do Christ Close
Do Christ Sub
Do Christ 
                                                                                                                                   Private Sub btnClose_Click()
On Error GoTo Err_btnClose_Click
                                                                                                                                   DoCrnd.Close
DoCrnd.OpenForm "IrmMaintenanceSwitchboard"
                                                                                                                                   Err_binClose_Click:
MagBax Err.Description
Resume Exit_binClose_Click:
                                                                                           Form: frmSchoolToPropertyMaint
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Code

Altibuse VB, Name = "Form_ImrSchoolToProperlyMain!"

Altibuse VB_Creatable = True

Altibuse VB_Creatable = True

Altibuse VB_Excosed = False

Cotion Compare Database

Option Explicit

7
                                                                                                                                          DoCmd.DoMenutiem acFormBer, acEditMenu, 8, , acMenuVer70
DoCmd.DoMenutiem acFormBer, acEditMenu, 6, , acMenuVer70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9 Prinste Sub-bh/Close_Click()
9 On Error GoTo Er_bh/Close_Click
10
10
12 DoCmd.Close -
13 DoCmd.Close -
13 DoCmd.Close -
14 DoCmd.Close -
15 DoCmd.Close -
16 DoCmd.Close -
17 DoCmd.Close -
18 DoCmd.Close -
19 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14
15 Exit_binClose_Click:
16 Exit Sub
17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       17
18 Err_binClase_Click
19 MegBox Err_Description
20 Resurre Est_binClase_Click
21 End Sub
22 End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DoCmd.DoMenutiem acFormBar, acEditMenu, 8, , acMenuVer70
DoCmd.DoMenutiem acFormBar, acEditMenu, 6, , acMenuVer70
                                                                                           38 End Sub
40
41 Private Sub binLevelD, Click)
42 On Error Sofio En_EntureD, Click)
43 On Error Sofio En_EntureD, Click)
44 DeinnipSteorchium & Long
45 DeinnipSteorchium & Long
46 Inspirecorthum = Me. CurrentFecord
46 Do Cond. CopenForm "ImmSchoolToPropLevelAhain"
47 Inspirecorthum = Me. CurrentFecord
48 Do Cond. CopenForm "ImmSchoolToPropLevelAhain"
50 Do Cond. CopenForm "ImmSchoolToPropLevelAhain"
51 Do Cond. CopenForm "ImmSchoolToPropLevelAhain"
52 FormetImmSchoolToPropLevelAhain"
53 FormetImmSchoolToPropLevelAhain"
54 Inspirecorthum = SELECT (ProportyName_PK) FROM FILID_SCH_PROP WHERE
55 Inspirecorthum = SELECT (ProportyName_PK) FROM FILID_SCH_PROP WHERE
56 Inspirecorthum = SELECT (ProportyName_PK) FROM FILID_SCH_PROP WHERE
57 FormetImmSchool Front_Inspirecorthum = SELECT (ProportyName_PK) FROM FILID_SCH_PROP WHERE SCALINGARIANCE (PLAYA & SEAR And Lovel = SECAME SEAR AND LOVEL = SEAR And Lovel = SECAME SEAR AND LOVEL = SEAR AND LOV
                                                                                                                                                         'Ensures the current record is save to the SCHCCL table DoCmd.DoMenuhern acFormBar, acRecordsMenu, acSaveRecord, ,
                                                                                                                                                         'This code enters the selected Target MOS's into the SCH_TGT_MOS 
Set firm = FormatimsChoolToPEF_Maint 
Set of a ImmLatinaselocide*FEF 
For Each warten in cit itemsCelected 
For int = 0 To Ct ColumnCount - 1
                                                                                                                                                  'This puts the value found in the list box into a text box, 
ing it readable by the query 
Format/rmSchoofToPEF_MaintPEFValue.Value = c1.Column(int),
                                                                                                                                                                                                            * Disables the action query confirmation message
Application.SelOption "Confirm Action Queries", False
                                                                                                                                                                                                         "Enters the value into the SCH_TGT_MOS table
DoCmd.OpenQuery "gryUpdateSCH_PEF"
                                                                                                                                                                                                         * Enables the action query confirmation message
Application.SelOption *Confirm Action Queries*, True
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Err_btnLevel0_Click:
MegBox Err.Description
Resume Exit_btnLevel0_Click
                                                                                                                                                         *Update the Potential PEF list
strSQL = "SELECT DISTINCTROW [PEF].[PEF_PK] FROM PEF LEFT JOIN
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= " & Formallimischool ToProplaveMaint SCourseAumber , PK, Valus & " & " And AMOS, PK = " & Formallimischool ToProplaveMaint AMOS, PK valus & ' And Lanel = & Formallimischool ToProplaveMaint (Schoenschael & ' 166 Formallimischool ToProplaveMaint (St. evel Direction and St. et al. 167 Formallimischool ToProplaveMaint (St. evel Direction and St. et al. 168 Exit (St. et al. 168 Exit (St.
                                                                                                                                                           69 Private Sub binLevel1_Click()
70 On Error GoTo Err_binLevel1_Click
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Dim IngRecordNum As Long
Dim strSQL As String
                                                                                                                                                                                                                                              ingRecordNum = Me.CurrentRecord
                                                                                                                                                                                                                                              DoCmd.Close
                                                                                                                                                                                                                                                    DoCmd.OpenForm "frmSchoofToPropl_evelMaint"
DoCmd.GoToRecord acDataForm, "frmSchoofToPropl_evelMaint", acGoTo,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     173 Feature Est_DehLawest_Click
175 End Sub
177 Private Sub binLawest_Click()
177 Private Sub binLawest_Click()
178 On Error GoTo Err_binLawest_Click
179
180 Dim telSCL As String
181 Dim setSCL As String
182
                                                                                                                                     cordNum
FormsttrmSchoolToPropLevelMainttChosonLevel = 1
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182 in Spiecorthium = Me. CurrenPiecord
184
185 DoCmd. Cless
180 DoCmd. Coloribecord acDataForm, "ImrSchoolToPropLeveMaint", acGoTo, by DoCmd. Coloribecord acDataForm, "ImrSchoolToPropLeveMaint," ACGOTO, acGoToPropLeveMaint, acGoTo, acGoToPropLeveMaint, acGoToP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          193 Formanian
194
195 Esit Usin Levels_Click
196 Esit Sub
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198 Est Deli Levels_Click
199 MegBox Est. Description
200 Ressums Esit_Dist_evels_Click
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202 End Sub
203 End Sub
204 Private Sub binLevel6_Click()
205 On Error GoTo Err_binLevel6_Click
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               204 Private Sub brituerist, Cickt)
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207 Dim httpRecordNam As Long
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218 FormatimSchoolToPropt_evelAsint*ChosenLevel & 7
220 FormatimSchoolToPropt_evelAsint*ChosenLevel & 7
222 Elit_Bhit_evels_Click
223 Elit_Bhit_evels_Click
225 Elit_Bhit_eve
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117 Err, bht.svetZ, Click:
118 MagBox Err.Description
119 Reserve Est_bht.svetZ_Click
120
121 Erd Sub
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122 Privato Sub bht.svetS_Click()
124 On Error GoTo Err_bht.svetS_Click()
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122 Frield Sub bit Leets Cickl)
123 Frield Sub bit Leets Cickl)
124 Frield Sub bit Leets Cickl)
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126 Dim IngRocordNam As Long
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128 Dim IngRocordNam - Mc CurrentRecord
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225 Err_binLevel6_Clicic
226 MegBox Err. Description
227 Resume Exit_binLevel6_Click
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Set R = Me RecordedClone
RFINFINITS (SourseAumbor_PK) = " & Chr(94) &
cmbCourseAumborFind] & Chr(94)
Me Bodomark = R Bodomark
MetjcmbCourseAumbor_PK SetFocus
Met ScounseAumbor_PK SetFocus
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253 'Int.end = 1
254 sis CL = "SELECT [PhropertyNerre_PK] FROM FLND_SCH_PROP WHERE
SCourseNumber_PK = "A the SCourseNumber_PK Value & T = "And ANGC_PK = "A the ANGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     255 Maistaneti, RowSource = srSQ, 256
257 'Update the Lowel 215 255 infl. ene 1.2 155 infl. ene 1.2 15
                                                                                                                                                           And Level = " & FormstrimSchoolToPtpLevelMaint (ChoenLevel & " & " & "
LINON SELECT [LPropertyName_FK] FROM LOG_SCH_PROP WHERE SCourseNumber_FK
```

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FROM gryLinonAlProperly LEFT JOIN gryLinonProperlyByLeval ON [gryLinonAlProperly] (Frynaeth)Bare, PVI] = [gryLinonProperlyBare, FROM INFERE (gryLinonProperlyBare, FROM INBERE (gryLinonProperlyBare, FROM INDE, SCH, PROP WHERE (gryLinonPr
                                                                                                      & "" & " And Level = " & intLevel & ""
260 Me.htt_evel2.RowSource = shSQL
                                                                                                   261
262 inflawel = 3
263 at SOL w "SELECT (PProperlyName_FIQ FROM FUND_SCH_PROP WHERE
263 at SOL w "SELECT (PProperlyName,FIQ FROM FUND_SCH_PROP WHERE
5 COLTENANTHOE, FIX = 3 Ma SCOLTENANTHOE PK Value 6 ** 6 * 140 CM
* 8 Ma AMOS_PK Value 6 ** 6 * And Level * 3 inflamel 6 ** 6 * UNION
5ELECT (I-ProperlyName,FIQ FROM LOQ_SCH_PROP WHERE 5 COLTENANTHOE FIX = * 8 Ma SAMOS_PK Value 6 ** 6 * And AMOS_PK = * 8 Ma AMOS_PK Value 6 ** 6 * * 6 * And Level * 3 inflamel 6 **
264 Ma_Ist_well 7 inflamel 6 **
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                                                                                        SELECT [LPropertyName_FK] FFLAN LLAS_SUP_FIRS_FMERICAL SOCIAL SHAPE STATES AND AMOS_FK = " & Ma AMOS_FK = " 
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79
80 End Sub
81
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Dim frm As Form, ctl As Control
Dim veritm As Varient, intl As Integer
Dim strSQL As String
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DoCmd.DoManuttern acFormBar, acRecordsMenu, acSaveRe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   'This code enters the selected Terget MOS's into the SCH_TGT_MOS 
Set time FormstimsChoofTGPropLeveReint 
Set cls armistic.well.hused 
For Each vertin in ct. termSelected 
For Ifast 0 To Gt. ColumnCount - 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          96
97 'This puts the value found in the first box into a feet box, making it reactable by the query.
98 Formall imSchootToPropt_evel*NeinEtergetValue.Value = ct.Column(int), well thin.
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80 Formatims Chord Display Confirmation message

10 Columnist, will brill

10 Displace the action query confirmation message

101 Application, SatDjeton (Confirm Action Cueries)*, Fabe

102 Doornd SetWarnings (Fabe)

103 Enters the value into the SCH_TGT_MOS table

105 Doornd Open-Query (stylupdateLDG_SCH_PROP)*

106 Doornd Open-Query (stylupdateLDG_SCH_PROP)*

107 * Enables the action query confirmation message

109 Application, SetDpton (Confirm Action Queries)*, True

100 * The Confirmation Confirmation Cueries (True)

101 Next setTh

111 Next setTh

112 Next ind

113 Next setTh

114 * SSCL = "SELECT DISTINCTHOW (styluhionAlProperty). [FPropertyName_PR]

115 * Update the potential property list

116 * stSCL = "SELECT DISTINCTHOW (styluhionAlProperty). [FPropertyName_PR]

117 * Mast ListenDeptony (LEFT_DISTINCTHOW (styluhionAlProperty). [FPropertyName_PR]

119 * stSCL = "SELECT DISTINCTHOW (styluhionAlProperty)."

119 * stSCL = "SELECT DISTINCTHOW (styluhionAlProperty). [FPropertyName_PR]

119 * stSCL = "SELECT DISTINCTHOW (styluhionAlProperty)."

119 * stSCL = "SELECT DISTINCTHOW (styluhionAlProperty)."

119 * stSCL = "SELECT DISTINCTHOW (styluhionAlProperty)."

110 * SSCL = "SELECT DISTINCTHOW (styluhionAlProperty)."

111 * Abst. Machael PropertyName_PR]

112 * SSCL = "SELECT (styluhionAlPropertyName_PR]

113 * SSCL = "SELECT (styluhionAlPropertyName_PR]

114 * SSCL = "SELECT (styluhionAlPropertyName_PR]

115 * SSCL = "SELECT (styluhionAlPropertyName_PR]

116 * SSCL = "SELECT (styluhionAlPropertyName_PR]

117 * Abst. AMOS_PK = "Abst. Abst. Abs
ode
Attibute VB, Name = "Form_fmSchoolToPropLave&Meint"
Attibute VB, Creatable = True
Attibute VB, Prodeclared id = True
Attribute VB_Exposed = False
Option Compare Delabbase
Option Explicit
                                                                                     7
Private Sub binClose_Leron;
9 On Error GoTo Err_binClose_Click
10
Dim IngRecordNum As Long
12
IngRecordNum = Me.CurrentRecord
                                                                                                                                                 DoCmd.OpenForm "frmSchoolToPropertyMeint"
DoCmd.GoToRecord acDetsForm, "frmSchoolToPropertyMeint", acGoTo,
acordNum
                                                                                               19
20 Edit_binClose_Click
21 Edit Sub
22
23 Err_binClose_Click
24 MegBox Err Description
Pesuma Edit_binClose_Click
25 End Sub
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          121
122 End Sub
123
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124 Private Sub RightArrow_Click()
125 Dim Imm As Form, cili As Control
126 Dim wartim As Varient, Intil As Integer
127 Dim strSQL As String
128
129 This code Delet he selected Target
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3321
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                                                                                                                               Private Sub bthDelote_Click()
On Error GoTo Err_binDelote_Click
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This code Delets the selected Target MOS's and its associated entries from the SCH_TIST_MOS table and table
                                                                                               31
32
33 DoCmd DoMenultern acFormBer, acEditMenu, 8, acMenuVer/70
34 DoCmd DoMenultern acFormBer, acEditMenu, 6, acMenuVer/70
35
36 Exit_binDales_Crick
37 Exit Sub
39 Err_binDales_Crick
40 MegBor Err Description
41 Resume Exit_binDales_Crick
42 End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       134 'This puts the value found in the list box into a text box mating it readable by the quary 135 Formaltims/chorfoPropLeveRelatint TargetValue Value = ct. Column(rist, warten)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            130 Courrell (microsotor) opused and to approximate value = ct. Courrell (microsotor) opused and to approximate value = ct. Courrell (microsotor) opused and to approximate value = ct. Courrell (microsotor) opused and to approximate value from the FUND or LOG SCH, PROP blade | Tour Courrell (microsotor) opused and to approximate value from the FUND or LOG SCH, PROP blade | Tour Courrell (microsotor) opused and to approximate value from the FUND or LOG SCH, PROP blade | Tour Courrell (microsotor) opused and tour courrell (microsotor) opused (micros
                                                                                     Dim strSQL As Stripp
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                                                                                            54 Me.lst.svei0.RowSource = strSQL
55
56 End Sub
57
                                                                                                      58 Private Sub cmbCourseNumberFind_AfterUpdate()
3233
3234
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                                                                                                                            Dim R As Recordset
Set R = Me. RecordsetClone
R = & As RecordsetClone
R = & Chr(34) &
||CrntGrict ||ScotcesNamber_PK|| = * & Chr(34) &
||CrntGrict ||ScotcesNamberFind| & Chr(54)
Me. Booltmark = R Booltmark
Mel[crntCourseNamberFind] = Nati
Mel.SCourseNamber_PK. SetFocus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       158 Me.letLevelO.RowSource × strSQL
159
160 End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Form frmScrubMerine
Code
1 Attitude VB_Neme = "Form_frmScrubMerine"
2 Attitude VB_Creatable = True
3 Attitude VB_Predectioned of True
4 Attitude VB_Esposed = False
5 Option Compare Debtises
                                                                                                                                   Private Sub Form Current()
                                                                                                                                                     * Update the potential property list strSQL = "SELECT DISTINCTROW [qryUnionAlProperty].[FPropertyName_PK]
```

```
49 Dim strSQL As String
50
                                                                          6 Option Explicit
50

1 stSQL = "SELECT DISTINCTFOW MARINE SSN_PK, MARINE SQL,
MARINE Gradbals FROM MARINE LEFT JOHN ASSIGNMENT ON MARINE SSN_PK =
ASSIGNMENT.SSN_PK WHERE (((ASSIGNMENT.SSN_PK) is Null))."

2 MacrimSSN RowGource = stSQL
                                                                                  8 Private Sub Close_Click()
9 On Error GoTo Err_Close_Click
                                                                          8 Priest Sub Close_Colct)
9 Die Error Garto Err, Conse_Cit
10
11 Dim stDocNeme As String
12 Dim stLinkChairle As String
13 Close current form
15 Dochmid Close
16 Close surrent form
16 Close surrent form
16 Dochmid Close
17 Close specified form
18 abDocNeme = "Imprespore
19 Dochmid Open Form stDock
10 Dochmid Open Form stDock
10 Dochmid Open Form stDock
12 Etr. Close_Citick
13 Etr. Close_Citick
14 Etr. Close_Citick
15 Etr. Close_Citick
15 Etr. Close_Citick
15 Etr. Close_Citick
16 Etr. Close_Citick
16 Etr. Close_Citick
16 Etr. Close_Citick
17 Etr. Close_Citick
17 Etr. Close_Citick
17 Etr. Close_Citick
17 Etr. Close_Citick
18 Etr. Clo
                                                                                                           Dim stDocName As String
Dim stLinkCriteria As String
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           *Open specified form

#DocName = "ImmPreprocessing&ExecutionSwitchboard"

DoCmd.OpenForm #DocName, . . . #LinkCriteria
                                                                                                           End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 70 DoCmd.DoMenul
71 DoCmd.DoMenul
72 DoCmd.DoMenul
73 Exit_Delete_Click:
75 Exit Sub
                                                                                  29
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40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DoCmd.DoMenuitem acFormBer, acEditMenu, 8, , acMenuVer70
DoCmd.DoMenuitem acFormBer, acEditMenu, 6, , acMenuVer70
                                                                                                        Dim R As Recorded
Set R = Me RecordedCone
R Findfirst IPEF = * 6 CY(34) & Mel[cmbPefFind] & Chy(34)
Me Boolmark = R Boolmark
Mel[cmbPefFind] = Null
Me SSI_PX_SetFocus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    76
77 Err_Delete_Click:
78 MegBox Err.Description
79 Resume Ext_Delete_Click
                                                                                                           End Sub
                                                                                  41 Private Sub cmbSSNFInd_AfterUpdate()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         81 End Sub
22
23 Private Sub Close_Click()
43 On Error GoTo Err_Close_Click
55
65 Dim stDockerne As String
67 Dim stLinkCriteria As String
68 Close current form
69 Close current form
60 DoCMC Close
61 Close Subcellar as String
62 Subcellar as TimmTreprocessal
63 Subcellar as TimmTreprocessal
64 Subcellar as TimmTreprocessal
65 Close_Click
66 Subcellar Subcellar as Subcellar as TimmTreprocessal
66 Subcellar Subcellar as Subcellar a
                                                                          Dim R As Recordset
Set R = Me RecordsetCone
R EndFirst TSN, PM] = * & Otr(34) & Met[crtbSSNFind] & Chr(34)
Me Boolmerk = R Boolmerk
Met[crtbSSNFind] = Mat
Met Cises SetFocus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          *Open specified form
stDocName = "frmPreprocessing&EsecutionSwitchboard
DoCmd.OpenForm stDocName, , , stLinkCriteria
                                                                                                           DoCmd.DoMenuttern acFormBer, acEditMenu, 8, , acMenuVer70
DoCmd.DoMenuttern acFormBer, acEditMenu, 6, , acMenuVer70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              101 Resume Ext_Close_Clack
102 End Sub
103 End Sub
105 Private Sub Form_Current()
105 Private Sub Form_Current()
106 Private Sub Form_Current()
107 Presents user from accidentially melding special assignments to restrict assigned formally.
108 Private Control Private Pr
                                                                                  61
62 Err_Delote_Click:
63 MagBox Err.Description
64 Resume Erit_Delote_Click
                                                                             Form: frmSpecialAssignment
Code
                                                                                                code
Altibute VB, Nerre = "Form_frmSpecielAssignment"
Altibute VB, Creatible = True
Altibute VB, Predictoredict = True
Altibute VB, Exposed = Fable
Option Conquere Databases
Option Conguere
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121 End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121 End Sub
122
123 Photes Sub Form_Open(Cancel As Inleger)
124
125
126 DoCmd (BoToRecord acDellsForm, "IrmSpecialAssignment", acNewRec
127
128 End Sub

Gujeon Exploit

Gujeon Exploit

Privale Sub crohClessNumber_Afarthpideler)

Dim sh'Conwert As Shing

Ma. bdRaporDate = Ne. cmbClessNumber. Column;

Ma. bdRaporDate = Ne. cmbClessNumber. Column;

Conwert the fiscall year to a two digit number as roomer in English Councert. 2)

Me. bdRasignmentType = "S"

Me. bdRasignmentType = "S"
                                                                                                              Me.tdReportDate = Me.cmbClassNumber.Column(2)
Me.tdMCC = Me.cmbClassNumber.Column(4)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ole
Altibule VB, Name = "Form, frmSpecialAssignmentOfUnassignedMe
Altibule VB, Creatable = True
Altibule VB, Predeciredid = True
Altibule VB, Exposed = Palse
Option Compare Datablese
Option Compare Datablese
Option Compare
                                                                                                           *Convert the fiscal year to a two digit number for RD3 File
st*Convert = CSY(Me.cmbClassNumber,Cokumn(3))
st*Convert = Right(st*Convert, 2)
Me.bdf?* = Cint(st*Convert)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3 Altibute VB, Predecised of a True
4 Altibute VB, Exposed = False
5 Option Compare Database
6 Option Compare Database
6 Option Compare Database
7 Option Compare As String
9 Dim st Coment As String
10 Dim st SSS As String
12 Dim R As Recordset
13 Dim R As Recordset
14 Me toffsport/Date = Na.cmbClassNumber. Columni
15 Me toffscore | Na.cmbClassNumber. Columni
16 **Coment the flacel year to a two digit numb
18 stConvert = CSF (Ma.cmbClassNumber. Columni
19 stConvert = Regint Convert)
22 **Mexiconvert = CSF (Ma.cmbClassNumber. Columni
23 **SSN = Ma.cmbSSN
24 **String teach of the current SSN
25 string | Na.cmbClassNumber. Columni
26 **Updates the current form and subform
Na.Facquery
27 Mexiconvert = CSF (Na.cmbClassNumber. Columni
28 **Idone the current form and subform
Na.Facquery
29 **Updates the current form and subform
Na.Facquery
21 Na.Facquery
21 Na.Facquery
22 **Updates the current form and subform
Na.Facquery
23 **Horse the record back to the current SSN
24 **String **Total SSN Pol ** - A Chr (Na.f) & etc.
35 **Mexiconvert = CSF (Na.cmbClassNumber. Enter()
41
42 **Dim st SCIL As String
43
                                                                    22 End Sub
23 Private Sub cmbClassNumber_Enter()
24 Private Sub cmbClassNumber_Enter()
25 Dim st SQL As String
27
28 'This query finds the class numbers, report dates and class comening dates associated with the chosen school
29 st SQL = "SELECT BNA_EXTRACT.CassNumber_PIK
BNA_EXTRACT.ClassConvOse, BNA_EXTRACT.ReportDate,
BNA_EXTRACT.ClassConvOse, BNA_EXTRACT.ReportDate,
BNA_EXTRACT.Finced*ver_PIK, BNA_EXTRACT.CostSNumber_PIK =
SCH_TGT_MOS.TootrasNumber_FIX) AND (BNA_EXTRACT.targeMOS_PIK =
SCH_TGT_MOS.TroptMOS_PIK WHERE BNA_EXTRACT.CastSNumber_PIK =
FormstimmSpacial/sargement/cmbCourseNumber_AND SCH_TGT_MOS_AMOS_PIK =
FormstimmSpacial/sargement/cmbCourseNumber_AND SCH_TGT_MOS_AMOS_FIK =
FormstimmSpacial/sargement/cmbCourseNumber_AND SCH_TGT_MOS_AMOS_FIK =
FormstimmSpacial/sargement/cmbCourseNumber_AND SCH_TGT_MOS_AMOS_FIK =
FormstimmSpacial/sargement/cmbCourseNumber_AND SCH_TGT_MOS_AMOS_FIK =
FormstimmSpacial/sarg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  *Convert the fiscal year to a two digit number for RD3 File
six Convert = Right(str Convert, 2)
six Convert = Right(str Convert, 2)
Me.bSP2 = Clin(str Convert)
                                                                                31
32 End Sub
                                                                             32 End Sub
33
34 Private Sub cmbCoursehkamber_AfterUpdate()
35
36 Me.bdAMOS = MelcmbCourseNumber, Colum
37
38 End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Me.btAMOS = MetombCourseNumber.Column(1)
                                                                  39
40 Priveta Sub-cmbSN_AfterUpdate()
41
42 Ma. tdSCI = MelcmbSSN_Column(1)
43 Ma. tdSCI = MelcmbSSN_Column(2)
44
45 End Sub-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ' Moves the record back to the current SSN
Set R = Me.RecordsetCone
R.FindFirst TSSN_FR; = " & Chr(34) & strSSN & Chr(34)
Me.Bookmark = R.Bookmark
                                                                                47 Private Sub cmbSSN_Enter()
48
```

```
44 'This query finds the class numbers, report dates and class convening rates associated with the chosen school 
5 strSCL = "SELECTENAL EXTRACT.CHISSNAmber_PK, 
BNA_EXTRACT.CHISSCOMOBIN, BNA_EXTRACT.HISPOTTOBINA 
BNA_EXTRACT.FISCHERE_PK, BNA_EXTRACT.HISPOTTOBINA_EXTRACT INNER JOIN 
SCH, TOT_MOS ON (BNA_EXTRACT.COURSANTIDE_PK = 
SCH, TOT_MOS TOURNAMINATE_PK) AND (BNA_EXTRACT.COURSANTIDE_PK = 
SCH, TOT_MOS.TOURNAMINATE_PK) AND (BNA_EXTRACT.COURSANTIDE_PK = 
SCH, TOT_MOS.TOURNAMINATE_PK) AND (BNA_EXTRACT.COURSANTIDE_PK = 
SCH, TOT_MOS.AMOS.PK = 
6 Mic.notClassNamber_PK = 
MOS.AMOS.PK = 
6 Mic.notClassNamber_PK=DMOSINCE = stSCL.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          * Close the current form
DoCmd Close
* Open specified form
stDockerne = *tmr4pelyzeResut*
DoCmd OpenForm stDockerne, __, stLinkCriteria
18 DoCrnd OpenForm stDochkime, , stLin
19 Et LiClase, Claic
21 Eir, Close, Claic
22 Err, Close, Claic
23 MagBox Err. Description
26 MagBox Err. Description
27 End Sub
28 Private Sub cmbSSNFind_AfterUpdate()
30 Dim R As Reacondate
31 Dim R As Reacondate
32 Set R = Met ReacondateClone
33 R FindFind* (1SSN Pri) = "4 chr(34) å.
34 Met Bockmark × R Bockmark × R
35 Met[cmbSSNFind] = Nut
36 Met Close. SetForus
37 End Sub
38 End Sub
                                     48 End Sub
49
50 Private Su
51
                                                Private Sub cmbCourseNumber_AfterUpdate()
                                                    Dim strSSN As String
Dim R As Recordset
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Dim Pl As Recordaet
SAR R = Ne RecordaetCone
R FindFirst (1SSN_PK) = " & Chr(34) & Mel[cmbSSNFind] & Chr(34)
Ne Bootenativ = R Bootenativ
Nel[cmbSSNFind] = Null
Nel Colon Sefecus
                                 strSSN = Me.cmbSSN
                                                      Ma triAMOS - MalambCourseNumber Column(1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                            37
38 End Sub
39
40 Private Sub Form_Current()
41 Dim strSQL As String
43 Dim rec As Recorded
44 Dim db1 As Detablese
45
                                                      *Updates the current form and subform
Me.Requery
Me.Repaint
                                                    "Moves the record back to the current SSN
Set R = Me.RecordsetClone
R.FindFirst "(SSN_FK) = " & Chr(34) & strSSN & Chr(34)
Me.Bookmark = R.Bookmark
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Set db1 = CurrentDb()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               *Colculates the number of unessigned marines.
strSQL = *SELECT Count(PEF) at STotalUnessigned FROM
Set rec = d01.0pmRecorded(strSQL, dbOperSnapshot)
Me.bffcatUnessigned = recTotalUnessigned
                                                    Me.btSOl = MelcmbSSN.Column(1)
Me.btGradDate = MelcmbSSN.Column(2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          End Sub
Private Sub btnAssign_Click()
On Error GoTo Err_btnAssign_Click
                                  79
80 Private Sub cmbSSN_Enter()
81
82 Dim -----
                                      78 End Sub
79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Dim stDocName As String
                                 53

54

55CL = "SELECT DISTINCTROW MARINE SSN_PK, MARINE SOI,
MARINE Gredobs FICOM MARINE LEFT JOHN ASSIGNMENT ON MARINE SSN_PK =
SSIGNMENT.SSN_FK WHERE (((ASSIGNMENT.SSN_FK) is Null));*

45

Ma.cmbSSN_RowSource = strSQL

67

End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               atDocName = "trmSpecialAssignmentOfUnassignedMarine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DoCmd.OpenForm stDocName
                                  87 End Sub
88 Private Sub crabSSNFind_AfterUpdate()
89 Private Sub crabSSNFind_AfterUpdate()
91 Dinn R As Recordset
92 Set R = Ne Recordset
92 Set R = Ne Recordset
93 R R FindFind T SSNL FR] = 18 Chr(34) &
94 Mes Bookmark = R Bookmark
94 Mes Bookmark = Nad
95 Mes Choes Set Focus
97 End End
                                                 Dim R As Recordsel
Set R = Me RecordselCone
RFIndfirst (SSN-F)(a " & Chr/34) & Mel(cmbSSNFind] & Chr/34)
Me Bootmark = R Bootmark
Mel(cmbSSNFind) = Nati
Mel(cmbSSNFind) = Nati
                                                                                                                                                                                                                                                                                                                                                                                                                                                Form: sub/rmFundamentalProperty
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Stoffirst sharmour speny of Albibute VB_Neme = "Form_subfrmFundern Albibute VB_Creatable = True Albibute VB_Creatable = True Albibute VB_PredeclaredId = True Albibute VB_Exposed = Felies Option Compare Database Option Compare Database Option Compare Sub CombValue_Fk_AlberUpdate()
                                      98 End Sub
                                     99
100 Private Sub Delete_Click()
101 On Error GoTo Err_Delete_Click
102
                                      102
103
104
DoCmd DoMenutern acFormBar, acEdiMenu, 8,, acMenuVer70
105
DoCmd DoMenutern acFormBar, acEdiMenu, 6, acMenuVer70
106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Forms!frmFundamentalProperty![FPropertyName_PK].SetFocus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          End Sub
                                        107 Exit_Delete_Click:
108 Exit Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Private Sub cmbVakie_FK_BeforeUpdate(Cancel As Integer)
                                                                                                                                                                                                                                                                                                                                                                                                                                                           134567692122562422722333233557338444246646646784
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          On Error GoTo Err_cmbValue_FK_BeforeUpdate
                                      109
110 Err_Delate_Click
111 MagBox Err.Description
112 Pleasure Exit_Delate_Click
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Dim db As Database
Dim rec As Recordest
Dim strSQL As String
Dim Convert As Varient
                                  112 Resume Eat_Delete_CRXx

113 114 End Sub

115 115 116 Preside Sub Close_Click()

116 Preside Sub Close_Click()

117 On Error GoTo Err_Close_Click

110 110 Ochrad. Close

121 00 DoChrid. Close

122 Eatt_Close_Click

123 Eatt Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           *Places value in a form agreeable to Access (e.g. "H" or "10")

Content = "" &
mFundamentaProperty!subfrmFundamentaProperty!cmbValue_FK & ""
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          *Opens the table PROPERTY_VALUE stSQL = "PROPERTY_VALUE" Set do = Current/b() Set do = Current/b() CapenFlacondset(stSQL, dbOpenSnapshot)
                                     122 ER CHRO GICK
123 Exit Sub
124
125 Err_Close_Cick
126 MagBox Err. Description
127 Resume Exit_Close_Cick
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "Searches for the value entered by the user in the rsc.FindFirst "Value_PK = " & Convert
                                    'If the value is not in the PROPERTY_VALUE table, it is added. If rec.NoMatch = True Then
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  * Disables the action query confirmation message
Application.SetOption *Confirm Action Queries*, False
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                *Enters the value into the PROPERTY_VALUE table 
DoCmd.OpenQuery *qryUpdetaProperty_Value*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          * Updates the drop down list for the combobox
strSQL = "SELECT DISTINCT" &
rms(frmPundements/Property)(MisrineField & * FPOM MAPINE;"
                                        140
141 Private Sub Form_Open(Cancel As Integer)
                                     142
143
144
DoCmd.GoToRecord.acDataForm,
trmSpecialAssignmentOrUnassignedMarine, acNewRec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          * Enables the action query confirmation message
Application.SetOption *Confirm Action Queries*, True
End If
                                      frmSpecialAss
145
146
147 End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    rec. Close
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Exit_cmbValue_FK_BeforeUpdate:
Exit Sub
                                              ode
Aktitiszte VB. Neme « "Form_ImilihassignedMarines"
Aktitiszte VB. Createble » True
Aktitiszte VB. Predocieredd « True
Aktitiszte VB. Predocieredd « True
Aktitiszte VB. Exposed » False
Option Compare Delabose
Option Exp
                                                                                                                                                                                                                                                                                                                                                                                                                                                            53 Erf Sub
55 Err_cmbValus_FK_BeforeUpdala:
56 MegBox Err.Deacription
57 Application. SaCiption "Confirm Action Quaries", True
58 Resurrar Erf_cmbValus_FK_BeforeUpdala
59 End Sub
                                    8 Private Sub Closs_Click()
9 On Error GoTo Err_Closs_Click
10
11 Dirn stDocNerne As String
12 Dirn stLinkCriteria As String
                                                                                                                                                                                                                                                                                                                                                                                                                                               Form: subtrmFundamentalPropertyList
Code
1 Attribute VB_Neme = "Form_subtrmFundamentalPropertyList"
```

3900 3901	2 Attribute VB_Creatable = True 3 Attribute VB Predeckared d = True	4000 27 strinput = " & SSN & "
3902	4 Attribute VB_Exposed = False	4031 28 stMar/alusOL = "SELECT" & stMarField & "AS [Value] FROM MARINE 4032 WHERE SSN_PK = " & stringut
3903 3904	5 Option Compare Database 6 Option Explicit	4033 29 Set rec2 = db1.OpenRecordset(strMarValueSQL, dbOpenSnapshot) 4034 30 verMarValue = rec2!Value
3905 3906	7 8 Privete Sub crrbVakue_FK_BeforeUpdate(Cancel As Integer)	4035 31 4036 32 str-UndValuisQL = "SELECT Value_FK FROM FUND_PROP_VAL WHERE
3907 3906	9 On Error GoTo Err_cmbValue_FK_BeforeUpdate 10	4037 FProperly Name_FK = * & FundPropName
3909	11 Dim db As Database	4039 34 varFundValue = rec3!Value_FK
3910 3911	12 Dim rec As Recordset 13 Dim strSQL As String	4040 35 4041 36 *Convert varFundVakie and varMarVakie to a numeric, if possible
3912 3913	14 Dim Convert As Variant 15	4042 37 If Ishumeric (varFundValue) And Ishumeric (varMarValue) Then
3914	16 Opens the subfrmFundamentalProperty so the following code will	4044 39 verMerValue = Cint(verMerValue)
3915 3916	18	4045 40 Else 4046 41 verFundValue = CStr(verFundValue)
3917 3916	19 20 Places value in a form agreeable to Access (e.g. "Hi" or '10")	4047 42 verMarValue = CStr(verMarValue) 4048 43 End If
3919	21 Convert = " & Forms![sub!rmFundamentalProperty]!cmbValue_FK &	4049
3920 3921	22 'Opens the table PROPERTY_VALUE 23 strSQL = 'PROPERTY_VALUE'	4050 4051 44
3922	24 25 Set db = Current(Db()	4052 45 Select Case strFundOperator 4053 46 Case "e"
3924	26 Set rec = db.OpenRecordset(strSQL, dbOpenSnapshot)	4054 47 If varMarValue = varFundValue Then
3925 3926	27 28 rec.FindFirst "Value_PK = " & Convert	#055 48 FundPropTest = True #056 49 End if
3927 3928	29 If rec.NoMatch = True Then 30 'Disables the action query confirmation message	4057 50 Case 'not e' 4058 51 If varMorValue <> varFundValue Then
3929	31 Application. SetOption "Confirm Action Queries", False	4059 52 FundPropTest = True
3930 3931	32 33 DoCrnzi.OpenQuery "qryUpdateProperty_Vebus"	4060 53 End If 4061 54 Case "<"
3932 3933	34 strSQL = "SELECT DISTINCT" & FORM MARINE;"	4062 55 If varMarValue < varFundValue Then
3934	35 Me.cmbValue_FK.RowSource = strSQL	4063 56 FundPropTest = True 4064 57 End I!
3935 3936	36 37 * Enables the action query confirmation message	4065 58 Case '>" 4066 59 !! varMarValue > varFundValue Then
3937 3938	38 Application, SetOption *Confirm Action Queries*, True 39 End If	4067 60 FundPropTest = True
3939	40	4068 61 End II 4069 62 Case "c="
3940 3941	41 rec,Close 42	4070 63 If warMarValue <= warFundValue Then 4071 64 FundPropTest = True
3942	43 'Closes the subfrmFundamentalProperty without saving changes to	4072 65 End If
3943 3944	44 DoCmd.Close acForm, "subfrmFundamentalProperty" 45	4073 66 Case ">=" 4074 67 If verMerValue >= verFundValue Then
3945	46 47 Ext_cmbValue_FK_BeforeUpdate:	4075 68 FundPropTest = True
3947	48 Exit Sub	4076 69 End II 4077 70 Case "in"
3948 3949	49 S0 Err_cmbVakue_FX_BeforeUpdate:	4078 71 Do Unil rec3.EOF 4079 72 verFundValue = rec3!Velue_FK
3950 3951	S1 MsgBox Err. Description	4080 73 If Ishkmeric(varFundValue) And Ishkmeric(varMarValue)
3952	53 Resume Exit_cmbValue_FK_BeloreUpdate	4081 74 varFundValue = Cint(varFundValue) 4082 75 varMarValue = Cint(varMarValue)
3953 3954	54 55 End Sub	4083 76 Else 4084 77 verifundValue = CStr(verifundValue)
3955	56	4085 78 verMarValue = CStr(verMarValue)
3956 3957	57 Private Sub Value_FK_BeforeUpdate(Cancel As Integer) 58 On Error GoTo Err_Value_FK_BeforeUpdate	4086 79 End II 4087 80 If verMar/Velue = verFundVelue Then
3958 3959	S9 60 Dim db As Database	4088 81 FundPropTest = True
3960	61 Dim rec As Recordset	4050 83 rec3.MoveNext
3961 3962	62 Dim strSQL As String 63 Dim Convert As Variant	4091 84 Loop 4092 85 End Select
3953 3964	64 65 'Places value in a form agreeable to Access (e.g. 'HT or '10')	4093 86 rec2.Close
3965	66 Comert = " &	4094 87 rec3.Close 4095 88 db1.Close
3966 3967	Forms!frmFundamentalProperty!subfrmFundamentalPropertyList!Value_FK & *** 67 *Opens the table PROPERTY_VALUE	4096 89 4097 90 End Function
3968 3969	68 strSQL = "PROPERTY_VALUE" 69	4096 91 Public Function LogOrTest(Input) As Boolean, Input2 As Boolean) As 4099 92
3970 3971	70 Set db = CurrentDb()	4100 93 If Input! Or Input? Then
3972	72	4101 94 LogOrTest = True 4102
3973 3974	73 rec.FindFirst "Value_PK = " & Convert 74 'This If Then statement checks to see if the entered value is in	4103 4104 95 Else: LogOrYext = False
3975 3976	75 PROPERTY_VALUE table. If not, it is added to the table. 76 If not.NoMetch = True Then	4105 96 End If
3977	77 Disables the action query confirmation message	#106 97 #107 98 End Function
3978 3979	78 Application.SatOption *Confirm Action Queries*, False 79	4108 99 Public Function LogAndTest(Input1 As Boolean, Input2 As Boolean) As 4109 100
3960 3961	80 DoCmd_OpenQuery "qryUpdeteProperty_VelueList" 81	4110 101 If input: And input? Then
3962	82 * Enables the action query confirmation message	4111 102 LogAndTest = True 4112 103 Else: LogAndTest = False
3963 3964	83 Application.SetOption "Confirm Action Queries", True 84 End If	4113 104 End If 4114 105
3965 3966	85 86 rsc.Cose	4115 108 End Function
3987	87	 4116 107 Public Function LogPropTest(LogPropName As String, SSN As String) As 4117 106 Dim intNewUBound As Integer, j As Integer, k As Integer, l As
3968 3969	88 Exit_Value_FK_BeforeUpdate: 89 Exit_Sub	4118 Integer, m As Integer 4119 109 Dim booOrOperator As Boolean, booAndOperator As Boolean,
3990 3991	90 91 Err_Value_FK_SeloreUpdate:	4120 booNotOperator As Boolean
3992	92 MagBox Err. Description	4121 110 Dim strLogicalEquation As String, atrSQL As String, strInput As 4122 111 Dim strWorkingEqn() As String
3993 3994	93 Application.SetOption "Confirm Action Queries", True 94 Resume Exit_Value_FK_BetoreUpdate	4123 112 Dim intSpacePos As Integer 'position of the space 4124 113 Dim db1 As Database
3995 3996	96 End Sub	4125 114 Dim rec As Recordset
3997	TO SHARE	4126 115 4127 116 Set db1 = CurrentDb()
3998 3999	Module: modifitnessDetermination	4128 117 F120 118 Cat the locical equation from the LOCICAL DOCUCCTV table
4000 4001	Code 1 Attribute VB_Name = "modFitnessDetermination"	4130 119 strinput = ** & LogProphieme & **
4002	2 Option Compare Database	
4003 4004	3 Option Explicit 4	4133 121 Set rec = db1. OpenRecordset(strSQL, dbOpenSnapshot) 4134 122 strLogicalEquation = rec!LogicalEquation
4005 4006	5 Dim IngStart, IngEnd As Long 6	A135 123
4007	7	4136 124 'Parse the string into an array 4137 125 'declare the temporary string as an array
4008 4009	Public Function FundPropTest(FundPropName As String, SSN As String) As	4138 125 ReDim st/WorkingEqn(0) As String 4139 127
4010 4011	10 Dim rec As Recordset, rec2 As Recordset, rec3 As Recordset	4140 128 'Find the position of the first space
4012	11 Dim str/MurField As String, strFundOperator As String, strSQL As 12 Dim str/MurValueSQL As String, strFundValueSQL As String, stringut As	4141 129 intSpacePos = InStr(strLogicalEquation, " ") 4142 130 'loop until no more spaces are found
4013 4014	13 Dim verFundValue, verMarValue 14 Dim db1 As Detabase	4143 131 'InStructures 0 if the space is not found
4015	15	4145 133 recimension the array, adding another element
4016 4017	16 FundPropName = "" & FundPropName & "" This expression properly formates the argument FundPropName, by placing a "in front of	4146 134 'UBound talls us how many alarments there airsedy are in the 4147 135 ReDim Preserve strWorkingEqn(UBound(strWorkingEqn) + 1)
4018 4019	and behind the value found in FundPropName.	4148 136
4020	18 Set db1 = CurrentDb()	4149 137 set the new element to the characters from the beginning of the 4150 138 string up to the first space. LeftS returns a number of
4021 4022	19 20 strSQL = "SELECT MarineField, Operator FROM FUNDAMENTAL_PROPERTY	4151 139 from the beginning of a string 4152 140 strWorkingEgn(UBound(strWorkingEgn)) =
4023 4024	WHERE FPropertyName_PK = * & FundPropName	4153 TrimS(LeftS(strLogicalEquation, intSpacePos - 1))
4025	22 strNurField = rectMarineField	4154 141 4155 142 'now we've copied these characters into the name, they can be
4026	23 24 strFundOperator = reclOperator	4156 4157
4027 4028 4029	25 26	4158 143 removed from the original string. RightS returns a number of 4159 144 characters from the end of the string. It is the rightmost N

4160	145 characters, therefore we subtract the position of the space	4290 258 Exit Function 4291 259 End II
4161	146 "the langth of the string. This gives us the number of characters remaining.	4292 260 Case "("
4163	147 strLogicalEquation = LTrimS(FightS(strLogicalEquation)	4293 261 j = k 4294 262 GoTo Line1 'Jumps back to For j = 1 to
4164 4165	Len(strLogicalEquation) - intSpacePos)) 148	4295 (UBound(strWorkingEqn)loop
4166 4167	149 "find the next space 150 intSpacePos = InStr(strLogicalEquation, "")	4296 263 Exit For Exits the For k = (j + 1) to 4297 (UBound(st/WorkingEqn)) loop
4168	151 Loop	4298 264 End Select 4299 265 Next k
4169 4170	152 153 For j = 1 To (UBound(shWorkingEqn))	4300 266 End If
4171	154 If strWorldingEqn(j) = "(" Then 155	4301 267 Next j 4302 268
4172 4173	156Line1:	4303 269 End Function
4174 4175	157 For k = (j + 1) To (UBound(strWorkingEqn)) 158 Select Case strWorkingEqn(k)	4304 270 4305 271 Public Sub Fitness()
4176	159 Case 7"	4306 272 Dim str SQL As String, str Classifiumber As String, str AMOS As String 4307 273 Dim str input As String, str Input As String
4177 4178	160 For I = (j + 1) To (k - 1) 161 Select Case str WorkingEqn(l) 162 Case "Or"	4308 274 Dim i As Integer, j As Integer, k As Integer I As Integer
4179 4180	162 Case "Or" 163 booOrOperator = True	4309 275 Dim inflormalFactor As Inleger, inflit As Integer, inflinut As 4310 276 Dim inflowel1 As Integer, infl. wel2 As Integer, infl. wel3 As Integer
4181	164 Case "And"	4311 277 Dim inLevel4 As Integer, intLevel5 As Integer, intLevel6 As Integer
4182 4183	165 booAndOperator = True 166 Gase "Not"	4313 279 Dim ang Count As Single, ang Avg Fit As Single, ang Fitness As Single
4184	167 booNoiOperator = True 168 Case True	4314 280 Dim sngMandFrfVelue As Single 4315 281 Dim IngGradDate As Long
4186	169 If strWorkingEqn() = "(" Then	4316 282 Dim db1 As Database
4187 4188	170 If bookbotOperator Then 171 strWorkingEqn() = "False"	4317 283 Dim recClass As Recordset, recMarine As Recordset, recMarClaFit As 4318 284 Dim recPEF As Recordset, recFDesired As Recordset, recLDesired As
4189	172 booNotOperator = False	4319 285 Dim recFMand As Recordest, recLMand As Recordest 4320 286 Dim booMandProp As Boolean, booPEF As Boolean, booMandatory As
4190 4191	173 Else 174 strWorkingEqn(j) = "True"	4321 287 Dim ver RefVal As Variant
4192	175 End If 176 Ese 'Executed after the first	4322 288 Dim frmCurrent As Form_frmClassQuota/PenaltyAndFit 4323 289
4194	bracketed property is tested and stored in the location of "("	4324 290 Set trrrCurrent = Forms!frmClassQuotaPenaityAndFit
4196 4196	177 If booklotOperator Then 178 strWorkingEqn(f) = "False"	4325 291 Set db1 = CurrentDb() 4326 292
4197	179 booNotOperator = False	4327 293 'Create TEMP_FIT table 4328 294 Application.SelOption "Confirm Action Queries", False
4198 4199	180 End If 181 If booOrOperator Then	4329 295
4200 4201	182 strWorkingEqn(i) = LogOrTest(CBook(strWorkingEqn(i)), CBook(strWorkingEqn(i)))	4330 296 IngGradDate = frmCurrentfMCTGradDate 4231 297
4202	183 booOrOperator = False	4332 298
4203 4204	184 Elself booAndOperator Then 185 strWorkingEgn(i) =	4333 299 'Create 2 TEMP_FIT tables from MAR_CLS_FIT table 4334 300 db1.Execute "SELECT SSN_FK, MarineIndex, ClassIndex_FK, Fitness INTO
4205	LogAndTest(CBook(strWorkingEqn(j)), CBook(strWorkingEqn(j)))	4335 TEMP_FTT FROM MAR_CLS_FTT; 4336 301 db1.Execute "SELECT SSN_FK, MarineIndex, ClassIndex_FK, Fitness INTO
4206 4207	186 booAndOperator = False 187 End If	4337 TEMP_FIT1 FROM MAR_CLS_FIT;*
4208 4209	189 End If 189 Gase "Faire"	4338 302 4339 303 'Insert into the TEMP_FIT tables the applicable SSNs based on MCT
4210	190 If strWorkingEqn(j) = "(" Then	4340 graduation date
4211 4212	191 If booNotOperator Then 192 strWorkingEgn(i) = "True"	4341 304 db1.Execute "INSERT INTO TEMP_FIT (SSN_FK)SELECT MARINE.SSN_PK FROM 4342 grySSN WHERE GradDate = " & ingGradDate & "
4213 4214	193 booNotOperator = False 194 Else	4343 305 db1.Execute "INSERT INTO TEMP_FIT1 (SSN_FK)SELECT MARINE.SSN_PK 4344 FROM grySSN WHERE GradDate = "& ingGradDate & "
4215	195 strWorldingEqn(j) = "False"	4345 306
4216 4217	196 End If 197 Ease * Executed after the first	4346 307 Application.SetOption "Confirm Action Queries", True 4347 308
4218	bracketed property is tested and stored in the location of "("	4348 309 'Create a dynaset of the temp_fit table 4349 310 serSQL = "SELECT" FROM TEMP_FIT"
4219 4220	198 If booNotOperator Then 199 strWorkingEqn(f) = "True"	4350 311 Set recMerClsFit = db1.OpenRecordset(strSCIL, dbOpenDynaset)
4221	200 booNotOperator = False 201 End II	4351 312 reckNarCtsFit.MoveLast 4362 313
4223	202 If booOrOperator Then	4353 314 *Create the MarineIndex for the Temp_fit table
4224	203 strWorkingEqn(j) = LogOrTest(CBook(strWorkingEqn(j)), CBook(strWorkingEqn(j)))	4355 316 recMarClaFit.MoveFirst
4226 4227	204 booOrOperator = False 205 Elself booAndOperator Then	4356 317 For i = 1 To recMarClaFit. RecordCount 4357 318 recMarClaFit. Edit
4228	206 strWorkingEgn(i) •	4358 319 recMarClsFitMarineIndex = i
4229 4230	LegAndTest(CBook(strWorkingEqn(i)), CBook(strWorkingEqn(i))) 207 booAndOperator = False	4359 320 recMer Cts-Fit Update 4360 321 recMer Cts-Fit MoveNext
4231	208 End II	4361 322 Neuti 4362 323 End II
4232	209 End II 210 Case ")" 'Do nothing	4363 324
4234	211 Case Else 212 If strWorkingEqn(i) = "(" Then	4364 325 'Create a dynaset of the Class table 4365 326 strSQL = "SELECT SCourseNumber_FK, AMOS_FK FROM QLASS"
4236	213 If booNotOperator Then	4366 327 Set recClass = db1.OpenFecordset(st/SCI, dbOpenDynaset) 4367 328 If recClass.EOF = False Then
4237	214 strWorkingEqn(i) = Not (FundPropTest(strWorkingEqn(i), SSN)	4368 329 recClass.MoveLast
4239 4240	215 booNotOperator = False 216 Else	4369 330 recCleas.MoveFirst 4370 331 End II
4241	217 strWorkingEqn() =	4371 332
243	FundPropTest(strWorkingEqn(1), SSN) 218 End If	4373 334 stSQL = "SELECT" FROM MARINE TEMP FITT WHERE
4245	219 Else 'Executed after the first bracketed property is tested and stored in the location of "("	4374 (((MARINE.SSN_PK)=(TEMP_FIT1),(SSN_FK(t));" 4375 335 Set recMarine = db1.OpenPecordee(strSQL_dbOpenDynasef)
4246	220 If booholOperator Then	4376 336 4377 337 If recivierine.EOF = False Then
4247	221 strWorldingEqn(f) = Not (FundPropTest(strWorldingEqn(f), SSN))	4378 338 recMarine.MoveLast
4249 4250	222 booNotOperator = False 223 Else	4379 339 recMarine.MoveFirst 4380 340 End1!
4251	224 strWorkingEqn(i) =	4381 341
4252 4253	FundPropTest(strWorkingEqn(t), SSN) 225 End If	4383 343 booMendProp = True
4254 4255	226 If booOrOperator Then 227 strWorkingEgn(i) =	4384 344 intFit = 0 4385 345 booPEF = False
4256	LegOrTest(CBook(strWorkingEan(j)), CBook(strWorkingEan(j)))	4386 346 booMandalory = False
4257 4258	228 booCrOperator = Faise 229 Eself booAndOperator Then	4387 347 in:NormalFactor = 100 4388 348 in:Lovel1 = 32
4259 4260	230 strWorkingEqn(j) = LogAndTest(CBcol(strWorkingEqn(j)), CBcol(strWorkingEqn(f)))	4389 349 inLovei2 = 16 4390 350 inLovei3 = 8
4261	231 booAndOperator = False	4391 351 inf_evei4 = 4
4262 4263	232 End If 233 End II	4392 362 intwel5 = 2 4393 363 intwel6 = 1
4264	234 End Select 235 Next I	4394 354 sng/Desir ed/Weight = 4395 355 sng/klandFit/Value = (1 - sng/Desired/Weight) * inthormalFactor
4265 4266	236	4396 356 var PetVal = SysCmd(acSysCmdini Meter, "Status",
4267	237 *Must transform the working equation to account for the bracketed expression evaluation.	4397 357 singEpsilon = 0.000001 4398 358
4269	238	4399 359 'Venity rec Claes has values 4400 360 If rec Claes. Record Count > 0 Then
4270 4271	239 intNewUBound = UBound(strWorkingEqn) - (k - j) 240 If intNewUBound ⇔ 1 Then	4401 361 sirClassNumber = "X"
4272	241 ReDim strTransformedEqn(1 To intNewLBound) 242 For m = 1 To j	4402 362 strAMOS = "X" 4403 363
4274	243 strTransformedEqn(m) = strWorkingEqn(m)	4404 364 *Cycle through all the classes
4275 4276	244 Next m 245 For m = (k + 1) To UBound(strWorkingEqn)	4405 365 For i = 1 To recClaes. RecordCount 4406 366 'Yeild control temporarily to Windows
4277	246 sirTransformedEqn(m - k + j) =	4407 367 DoEvents 4408 368 *Update status bar
4278	247 Next m 248 ReDim st WorldingEqn(1 To intNewUBound)	4409 369 verRefVal = SysCmd(acSysCmdUpdateMeter, i)
4290 4281	249 For m = 1 To infNewUBound 250 strWorkingEqn(m) = strTransformedEqn(m)	4410 370 4411 371 *Update the classindex_FK for the MerCleFit record
4282	251 Next m	4412 372 If recMarClaFit, RecordCount > 0 Then
4283	 j=1 "Set j back to a value of 1. GoTo Line1 "Jumps back to For j=1 to 	4413 373 recMarClaFit.MoveFirst 4414 374 For j = 1 To recMarClsFit.PecordCount
4295 4296	(UBound(strWartingEan)loop 254 Else	4415 375 recklarCleFit Edit 4416 376 recklarCleFit ClessIndex_FK = i
1287	255 LogPropTest = strWorkingEqn(j)	4417 377 recMarClaFit Lodate
4288 4289	256 Erase stWorkingEqn 257 Erase stYransformedEqn	4418 378 recktar ClaFit. MoveNext 4419 379 Next ;
_	•	·

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29 380 Fd 1
4412 381 End 1
4422 382 'Chack
4423 383 If (racCass)
4425 (racCass) ANDS FK = str.
4426 384 If (racCass)
4427 385 Application 5
4427 385 Application 5
4428 Application 5
4429 Application 5
4429 Application 5
4429 Application 5
4420 End | Filt | Filt | Filt | Filt |
4420 End | Filt | Filt | Filt | Filt |
4421 386 | Chack | Class | Chack | Chack |
4422 386 | Chack | Chack | Chack |
4423 387 | racClass MoveNext |
4424 386 | Chack | Chack | Chack |
4425 387 | racClass MoveNext |
4426 387 | racClass | Chack |
4427 380 | Chack | Chack |
4428 381 | racMarrian PaccetCounts o Than
4429 382 | Chack |
4420 384 | If racMarrian PaccetCounts o Than
4420 385 | rinidation variables |
4421 397 | rinidation |
4421 398 | rinidation |
4422 386 | rinidation |
4424 399 | rinidation |
4425 399 | rinidation |
4426 400 | Find all PEFs associated with the current school |
4226 4027 | School |
4237 | School |
4248 403 | Find all PEFs associated with the current school |
4249 404 | If racPER_EOF | Filts |
425 Application |
426 Application |
427 Application |
428 Application |
429 | racClass |
420 Application |
420 Application |
421 Application |
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423 Application |
424 Application |
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necLMend.MoveFirst
End II
II booklandProp = True Then
infiFi = 1
End II
Finalt booklandProp for next check
booklandProp = True
'Compare marine attributes with the desired
                                                                                                                                                                                                                                                                                                                                                                                  If intFit > 0 Then
*Compare with desired fundamental
If recFDesired.EOF = False Then
For I = 1 To recFDesired.RecordCount
If
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               pertyName_Fit_necMarine(SSN_PK) = True Then
Select Case recFDesired(Level
Case 1
indfit = indfit +
Case 2
indfit = indfit +
Case 3
indfit = indfit +
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          intFit = intFit +
Case 5
intFit = intFit +
Case 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         intFit = intFit +
End Select
End If
recFDesired.MoveNext
of I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Next1 recFDesired, MoveFirst
End II
*Compare with desired logical properties
If recLDesired, EOF = False Then
For I = 1 To recLDesired, RecordCount
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               {
poptyName_FK, recMarinelSSN_PK) = True Then
Select Case recLDestred!Level
Case 1
Case 1
Case 2
indFit = indFit +
Case 2
indFit = indFit +
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Case > Infile Infile + Case | 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                mcLDesired.MoveFirst
End II'
End II' II indFit > 0 Then
End II' II booFEF = True Then
reclearCaFit.Edit
II' Be marine's PEF is not satisfied by the
te does not must
'all the mendatory properties for the school, a
eigned.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               567

achool or the marine does not meet
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after mandatory properties for the school, a
score of zero is sergeed.
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for a sergeed.
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for a sergeed is sergeed.
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for a sergeed is sergeed in a sergeed in a sergeed. A score of
indicates the achool had no
550

for a sergeed in a ser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    recFDesired MoveFinst
End II

432

*Find desired logical properties associated with the
curren school

434

*SESCL = "SELECT L Property Name FK (Lawai) FROM

LOD, SCH, PROP WHERE SCOURSANINGE FK = " & stringut & "AND Level or " & indigut &"

435

*Set recLDesired = doi: 1, OpenRecordes(strSCL, if recLDesired CEF = False Then

435

*Set recLDesired End Final Fi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7eple
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1 Attribute VB_Name = "modimportExportData"
2 Option Compare Database
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9 End Sub
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11 Public Sub ImportPD1()
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12
13 DocmaTriansterTest acimportFixed, "RD1", "gryMaurine", C:/TridesPlantFixenDaisH201.tx 14
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15 End Sub
17 Pabis: Sub ImportToTarget_MOS() "(AcisonQuery As String)
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19 CurrentDol, Denous "INSERT INTO TARGET_MOS ( CourseNumber_FK, TargetMOS_FK, MCC) SELECT DISTRUCT MAY DETINGET CourseNumber_FK, BNA_EXTRACT.TargetMOS_FK, MCC) SELECT DISTRUCT MOS OF FROM BNA_EXTRACT 22 Public Sub Ampt_Result)
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Application Seliption "Continum Action Queries", True
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End Sub
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End S
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489 78 DoCmd ParSOL 'DELETE DISTINCTHOW MARINE', ASSIGNMENT: FROM MARINE
4840 INNER JOIN ASSIGNMENT ON MARINE. SNLPK - ASSIGNMENT.SSNLFK
4840 INNER JOIN ASSIGNMENT ON MARINE. SNLPK - ASSIGNMENT.SSNLFK
4841 ASSIGNMENT Pepor Date of & varifodayable & "485" WIEEE (((ASSIGNMENT ON MARINE.SSNLPK - ASSIGNMENT.SSNLFK
4851 84 Clear 7' If no is cicked
4852 85 Mile action taken
4853 86 End Select
4854 86 End Select
4854 87 Claas 6' If yet is cicked
4854 82 'Deletes entries in the Marine table without a corresponding
4855 88 End Sub
4856 89 DoChd ParSOL 'DELETE DISTINCTROW MARINE.', ASSIGNMENT.SSNLFK
4856 80 DoChd ParSOL 'DELETE DISTINCTROW MARINE.', ASSIGNMENT.SSNLFK
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